CG CAPTIVA 5

CG Captiva 5 Owner’s Handbook

GM Holden Ltd, ABN 84 006 893 232 (hereinafter Holden)

Change of name, address or ownership

In the event of a Safety Recall, or for various reasons, Holden may need to contact you as the owner of this vehicle.

If you have recently changed your address, or name, or purchased this vehicle second-hand, please help us to help you by taking a few minutes to fill in and mail the forms at the beginning of the Service/warranty booklet.

For information about GM Holden's privacy policy or to update owner details online, please visit Holden's website at www.holden.com.au

Note Please refer to the inside front cover of the Service/warranty booklet for the Vehicle Identification Certificate.

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CHAPTERS

Dashboard ***1A***

Audio system ***1B***

Locks ***2***

Know your vehicle ***3***

Driving ***4***

Fuel ***5***

Emergencies ***6***

Weekly checks ***7***

Specifications ***8***

Tow and load ***9***

Cleaning ***10***

Index

We thank you for choosing Holden and want to assure you of our continuing interest in your driving pleasure and satisfaction.

This handbook applies to the current Captiva model.

Please note that all information, illustrations and specifications in this handbook are based on the latest production information available at the time of printing. Holden reserves the right to make changes at any time without notice and without incurring any obligation.

CONTENTS

Chapter 1A – Dashboard

- Dashboard layout
- Instrumentation
- Warning/reminder indications
- Driver Information Display (DID)
- Steering, horn, hazard warning
- Wipers and washers
- Lights
- Cruise control
- Ventilation system
- Manual heating, air conditioning

Chapter 1B – Audio

- Overview
- Steering wheel remote controls
- Important information
- Switching on/off
- Audio settings
- Radio operation
- CD operation
- Antenna information
- Notes on compact discs
- Glossary of terms

Chapter 2 – Locks

- Keys
- Ignition switch
- Door locks
- Rear tailgate lock
- Bonnet lock
- Security

Chapter 3 – Know your vehicle

- Seats
- Restraints
- Supplemental restraint system
- Power windows
- Mirrors
- Interior lamps
- Assist grips
- Storage compartments
- Power sockets

Chapter 4 – Driving

- Safety
- Driving precautions
- Park brake
- Park Assist
- Engine starting
- Transmission operation
- Active safety systems
  - Anti-lock Brake System (ABS)
  - Electronic Stability Program (ESP®)
  - Descent Control System (DCS)
  - All Wheel Drive system (AWD)
- Add on equipment

Chapter 5 – Fuel

- Fuel
- Emission control
- Reducing fuel consumption

ESP® is a registered trademark of Daimler Chrysler AG.

*The asterisk signifies equipment options not in all vehicles, model variants, engine options, optional equipment and Genuine Holden Accessories (and Parts).

CONTENTS cont.

Chapter 6 – Emergencies
- Customer assistance – Australia
- Customer assistance – New Zealand
- Flat tyre
- Changing a flat tyre
- Towing a disabled vehicle
- Engine overheating
- Flat battery
- Fuse replacement
- Bulb replacement

Chapter 7 – Weekly checks
- Exterior checks
- Under bonnet checks
- Battery

Chapter 8 – Specifications
- Specifications
- General specifications
- Identification labels

Chapter 9 – Tow and load
- Loading the vehicle
- Towing

Chapter 10 – Cleaning
- Interior cleaning
- Exterior cleaning

Index

CHAPTER 1A

Dashboard

Page

Dashboard layout 1A-2

Instrumentation 1A-3

Warning/reminder indications 1A-6

Driver Information Display (DID) 1A-11

Steering, horn, hazard warning 1A-14

Wipers and washers 1A-15

Lights 1A-17

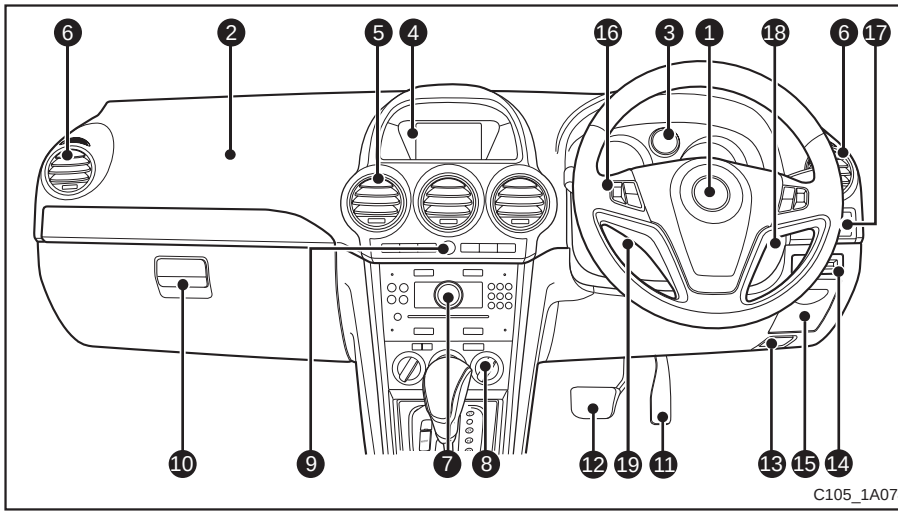
Cruise control 1A-20

Ventilation system 1A-22

Manual heating, air conditioning 1A-23

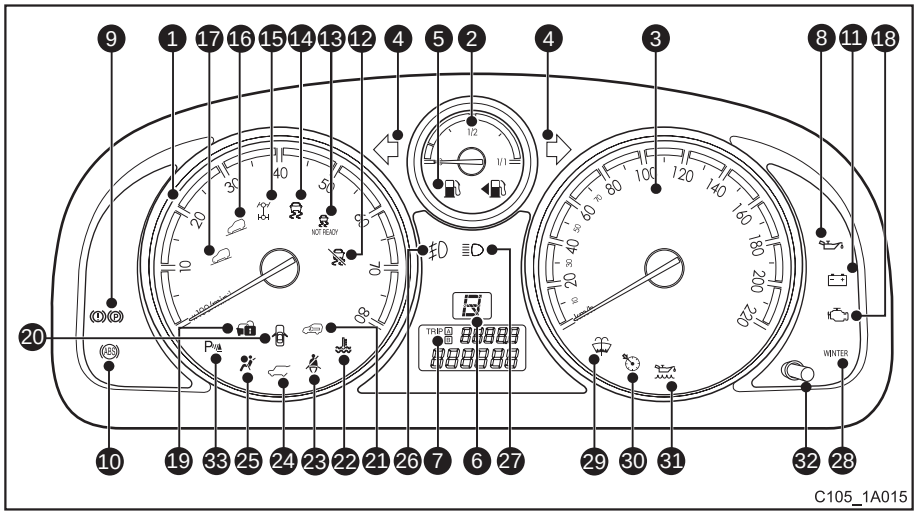
*The asterisk signifies equipment options not in all vehicles, model variants, engine options, optional equipment and Genuine Holden Accessories (and Parts).

DASHBOARD LAYOUT



1. Driver airbag
2. Front passenger airbag
3. Instrument panel
4. Driver Information Display (DID)
5. Centre vent outlet
6. Side vent outlet
7. Audio system
8. Manual heating, air conditioning
9. Hazard warning flasher button
10. Glovebox
11. Accelerator pedal
12. Brake pedal
13. Bonnet release lever
14. Card holder
15. Coin storage
16. Remote control for audio system
17. Headlamp switch
18. Lever for:
    - turn signal
    - high/low beam
    - cruise control
19. Lever for wiper and washer (front and rear)

INSTRUMENTATION



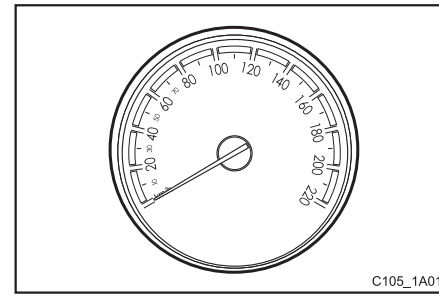
		Page
❶	Tachometer	1A-4
❷	Fuel gauge	1A-5
❸	Speedometer	1A-4
❹	Turn signal indicators	1A-22
❺	Low fuel warning indicator	1A-6
❻	Gear selector lever position indicator	1A-8
❼	Trip odometer display	1A-4
❽	Engine oil pressure warning	1A-7
❾	Brake warning indicator	1A-7
❿	ABS warning indicator	1A-6
⓫	Battery warning lamp	1A-7
⓬	ESP® off indicator	1A-8
⓭	ESP® not ready indicator	1A-8
⓮	ESP® active and warning indicator	1A-9
⓯	AWD warning indicator	1A-10
⓰	DCS active indicator	1A-9
⓱	DCS not ready and warning indicator	1A-9
⓲	Check engine (MIL) lamp	1A-7

		Page
⓳	Immobiliser warning indicator	1A-9
⓴	Door ajar indicator	1A-10
㉑	Service vehicle soon warning indicator	1A-9
㉒	Engine coolant temperature warning indicator	1A-9
㉓	Driver seat belt indicator	1A-8
㉔	Tailgate open indicator	1A-10
㉕	Airbag and SRS warning indicator	1A-6
㉖	Front fog lamp indicator	1A-8
㉗	High beam indicator	1A-8
㉘	Winter mode indicator	1A-8
㉙	Low washer fluid level warning	1A-9
㉚	Cruise control indicator	1A-10
㉛	Engine oil level warning indicator	1A-10
㉜	Trip odometer reset button	1A-4
㉝	Park Assist warning indicator	4-9

INSTRUMENTATION cont.

Speedometer

The speedometer ❸ indicates the vehicle's speed in kilometres per hour (km/h).



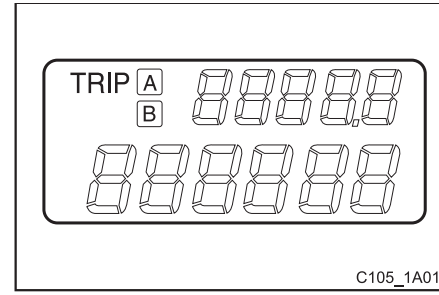
Odometer and tripmeter

The window between the tachometer and speedometer is used for the odometer and tripmeter ❼.

The odometer records the distance travelled since the vehicle was built, and the tripmeter records the distance travelled on a particular journey. The tripmeter can keep a record of two different journeys at the same time. The two trip odometers are distinguished as **TRIP A** and **TRIP B**.

The trip odometer reset button ❷❷ is located at the lower right-hand side of the speedometer dial.

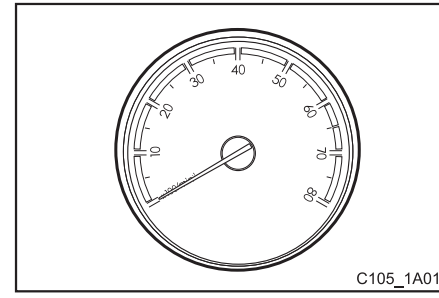
With the ignition switched on, push the trip odometer reset button ❷❷ to change the display between the odometer, **TRIP A** and **TRIP B**. If the trip odometer reset button is pressed and held, the tripmeter resets to zero.



Tachometer

The tachometer ❶ indicates the engine speed in revolutions per minute (rpm). The red zone of the tachometer indicates critical engine speed.

WARNING
Never operate the vehicle with the tachometer needle in the red zone. Continued operation with the tachometer needle in the red zone will lead to serious engine damage.



INSTRUMENTATION cont.

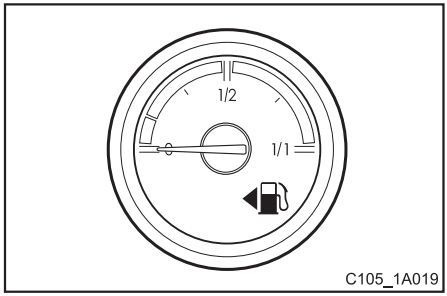
Fuel gauge

The fuel gauge ❷ indicates the level of fuel within the fuel tank when the ignition switch is turned to the ON position. **1/1** represents full and **0** represents empty. The needle in the fuel gauge falls to **0** when the ignition switch is turned to the OFF position. The fuel tank content displays when the ignition switch is turned to the ON position.

Refer to *Fuel* in chapter 5 for refuelling instructions.

Note Avoid letting the tank run empty; this can cause damage to the catalytic converter.

Refer to *Specifications* in chapter 8, for fuel tank capacity.



WARNING/REMINDER INDICATIONS

Anti-lock brake system (ABS)

The ABS warning lamp illuminates when the ignition switch is turned to the ON position, and goes out after approximately 4 seconds.

If the ABS warning lamp exhibits any of the following conditions:

- does not flash or stays on when the ignition is in the ON position,
- stays on after several flashes,
- flashes while driving,
- stays on continuously while driving,

contact your Holden Dealer immediately.

Note This lamp indicates the anti-lock braking system is not operating, although the vehicle's brake system will still operate conventionally. Refer to *Active safety systems* in chapter 4.

Airbag and supplemental restraint system (SRS)

To check if the warning lamp is working, the SRS warning lamp flashes several times when the ignition switch is first turned to the ON position.

If the SRS warning lamp exhibits any of the following conditions:

- does not flash or stays on when the ignition is in the ON position,
- stays on after several flashes,
- flashes while driving,
- stays on continuously while driving,

it indicates the airbag system or seat belt pretensioner system may not function correctly, especially in an accident. Contact your Holden Dealer immediately.

Low fuel

Illuminates when the ignition switch is turned to the ON position and goes out after approximately 4 seconds.

The low fuel indicator lamp displays when the fuel tank is approaching empty. When the low fuel lamp illuminates add fuel as soon as possible.

WARNING/REMINDER INDICATIONS cont.

Brake

The brake warning lamp displays when the ignition switch is in the ON position and the engine is not running, as a check to show you it is working properly. The lamp also displays when the park brake is engaged. The lamp extinguishes when the park brake is released.

If the brake warning lamp displays while you are driving and the park brake is fully released, you should stop the vehicle as soon as possible and contact your Holden Dealer immediately.

WARNING
Driving with the brake warning lamp on can lead to an accident. Have the brake system checked immediately by your Holden Dealer if the brake warning lamp stays on.

Battery

The battery warning lamp illuminates when the ignition switch is turned to the ON position, and remains on until the engine is started.

If the lamp illuminates when driving, this may indicate the alternator is not charging the battery. If the alternator drive belt is intact, there is a problem in the charging system and you should contact your Holden Dealer.

Oil pressure

The oil pressure lamp illuminates when the ignition switch is turned to the ON position, and will remain illuminated until the engine is started.

If the oil pressure lamp is illuminated while driving, this indicates the oil pressure is dangerously low. Stop the vehicle as soon as possible and check the engine oil level. Refer to *Under bonnet checks* in chapter 7. Do not drive the vehicle with the oil pressure indicator lamp illuminated, contact your Holden Dealer.

Check engine (MIL) lamp

The malfunction indicator lamp monitors the emission control system. This lamp should come on when the ignition switch is in the ON position and the engine is not running. If it stays on or comes on while you are driving, there may be a problem with this system, contact your Holden Dealer.

WARNING
If you keep driving your vehicle with the malfunction indicator lamp on, after a while, your emission control system may not work as well, your fuel economy may not be as efficient and your engine may not run as smoothly. This could lead to costly repairs.

WARNING/REMINDER INDICATIONS cont.

WINTER

Winter mode indicator

The winter mode indicator illuminates when the winter mode button is pressed, use this mode to drive away smoothly during icy and slippery road conditions.

Shift select position indicator

Displays the position of the automatic transmission shift select lever.

Front fog lamp indicator

Illuminates when the front fog lamps are switched on.

Driver's seat belt reminder

When the ignition switch is turned to the ON position, the seat belt reminder lamp comes on for approximately 4 seconds to remind the driver to fasten the seat belt, if the seat belt is not fastened after the engine has been started the lamp will flash for approximately 90 seconds and then stay illuminated continuously until the drivers seat belt is fastened. When the vehicle is driven away and the speed is above 22 kph the lamp will flash again and a warning chime will sound for approximately 90 seconds, after which the lamp will stay illuminated continuously until the drivers seat belt is fastened.

If the driver's belt is buckled, neither the chime nor the lamp will come on.

Turn signals

When the turn signal switch or hazard warning lamp switch is switched on, the turn signal indicator lamp (within the instrument panel) flashes to indicate operation of the turn signal lamps or hazard warning lamps.

High beam

This indicator lamp is illuminated when the headlamps high beams are in use.

Electronic stability program (ESP®) off indicator

When the ignition switch is turned to the ON position, the ESP® indicator illuminates for approximately 4 seconds. The ESP® off indicator will illuminate after the button on the centre of the instrument panel has been pressed.

NOT READY

Electronic stability program (ESP®) not ready indicator

When the ignition switch is turned to the ON position, the ESP® not ready indicator illuminates for approximately 4 seconds. The ESP® not ready indicator illuminates to indicate the ESP® is not ready for operation. Refer to *Electronic Stability Program (ESP®)* in chapter 4.

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WARNING/REMINDER INDICATIONS cont.

Electronic stability program (ESP®) active and warning lamp

When the ignition switch is turned to the ON position, the ESP® indicator illuminates for approximately 4 seconds. This lamp flashes while ESP® is operating and illuminates constantly to indicate there is a malfunction in the system, consult your Holden Dealer.

Descent control system (DCS) active and not ready warning lamps

When the ignition switch is turned to the ON position, the DCS indicator illuminates for approximately 4 seconds. The green DCS lamp illuminates when DCS is activated by pressing the DCS button in the centre of the instrument panel and flashes while DCS is active, the amber DCS lamp indicates the DCS is not ready or there is a malfunction in the system, consult your Holden Dealer.

Immobiliser system

When the ignition switch is turned to the ON position, the immobiliser indicator illuminates for approximately 4 seconds. This lamp illuminates continuously to indicate there is a malfunction in the system, consult your Holden Dealer.

Low windscreen washer fluid

When the ignition switch is turned to the ON position, the low washer fluid indicator illuminates for approximately 4 seconds. This lamp indicates the fluid in the washer reservoir is low and must be refilled.

Service vehicle soon

When the ignition switch is turned to the ON position, the SVS indicator illuminates for approximately 4 seconds. The lamp should extinguish after the engine has been started. The service vehicle soon lamp will illuminate if a malfunction exists in the non-emission related components or the related sub systems, consult your Holden Dealer.

WARNING
If you keep driving your vehicle with the service vehicle soon lamp on, damage may result in the non-emission related components or related sub systems. This could lead to costly repairs.

Engine coolant temperature

When the ignition switch is turned to the ON position, the coolant temperature indicator illuminates for approximately 4 seconds.

If the engine coolant warning illuminates while driving, it indicates the engine coolant temperature is excessively hot. It is advisable to stop the vehicle as soon as it is safe to do so. If the lamp does not extinguish, consult your Holden Dealer.

WARNING/REMINDER INDICATIONS cont.

Door ajar warning

Illuminates when a door is open or not securely latched.

Tailgate ajar warning

Illuminates when the tailgate is open or not securely latched.

Cruise control indicator

Illuminates when the cruise control has been set and extinguishes when cruise control is switched off.

All wheel drive system (AWD)

When the ignition switch is turned to the ON position, the AWD indicator illuminates for approximately 4 seconds. The lamp flashes when the AWD system is temporarily disabled and remains on continuously when there is a malfunction in the AWD system.

Engine oil warning

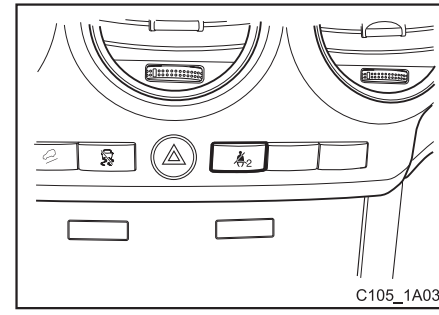
When the ignition switch is turned to the ON position, the engine oil warning illuminates for approximately 4 seconds.

If the engine oil warning lamp is illuminated while driving, this indicates the oil level is dangerously low. Stop the vehicle as soon as possible and check the engine oil level. Refer to *Under bonnet checks* in chapter 7. Do not drive the vehicle with the engine oil level indicator lamp illuminated, contact your Holden Dealer.

Front passenger seat belt reminder

When the ignition switch is turned to the ON position, the front passenger seat belt indicator illuminates for approximately 4 seconds. This indicates the system performs a self check and then the lamp extinguishes if the front passenger seat is not occupied.

When the front passenger seat is occupied, the engine started and the front passenger seat belt is not fastened, the lamp will flash for 90 seconds and then illuminate continuously until the front passengers seat belt is fastened.



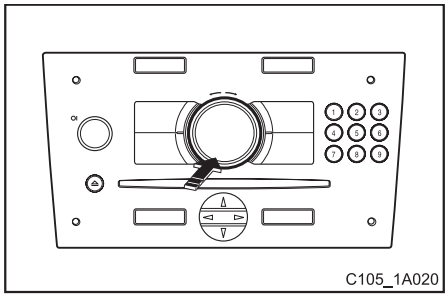
DRIVER INFORMATION DISPLAY (DID)

The driver information display (DID) displays information for the radio frequency, band, time and outside temperature when the ignition switch is in the ON position.

Selecting functions

The functions and settings can be accessed via the driver information display (DID).

Functions are selected and executed by using the multifunction knob on the audio system or the steering wheel remote control – refer below.



Using the multifunction knob

Turn: Turn the knob to mark menu items or commands.

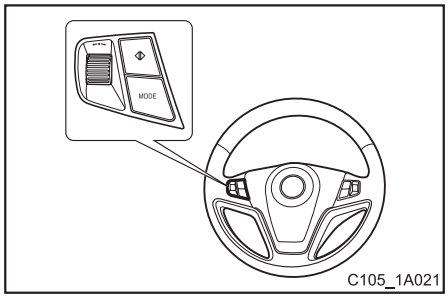
Press: Press to select the marked item and confirm the command.

Using the steering wheel remote control

Move upward: Previous menu item.

Move downward: Next menu item.

Press: Press to select marked item and to confirm the command.

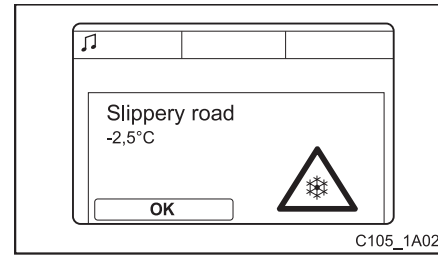


DRIVER INFORMATION DISPLAY (DID) cont.

Outside temperature

This mode indicates the temperature outside the vehicle.

Note If the temperature is below -5 ºC, no message will be displayed.



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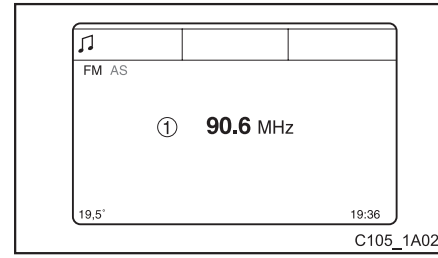
Radio station display

This mode displays the band and frequency of the radio station selected.



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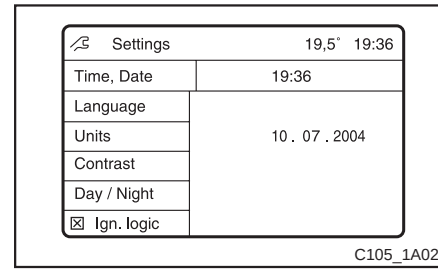
System settings

Settings are accessed via the settings menu.

Press the settings button on the audio system and the settings menu will be displayed.



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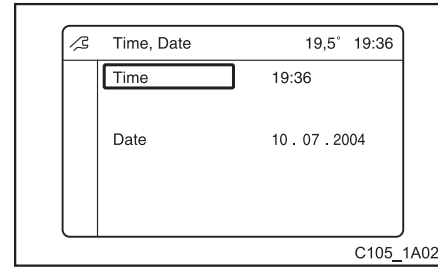
Setting date and time

- Select **Time**, **Date** from the settings menu.
  - The menu for **Time**, **Date** will be displayed.
- Rotate the multifunction knob to select **Time** or **Date.**
  - Press the multifunction knob to highlight the value to be adjusted.
  - Rotate the multifunction knob to adjust value.
- To confirm new setting press the multifunction knob.
- To return to the main menu press the **Settings** button.



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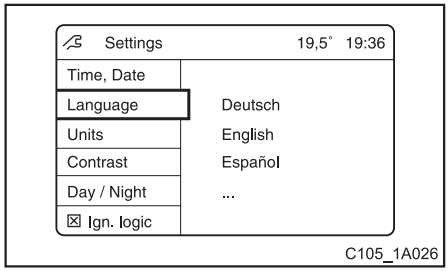
DRIVER INFORMATION DISPLAY (DID) cont.

Language selection

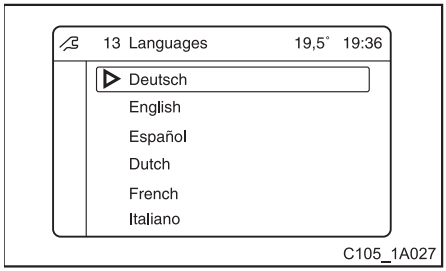
The display language can be selected for some functions. Select menu item, **Language** from the settings menu.

The available languages are shown opposite.



Select the desired language

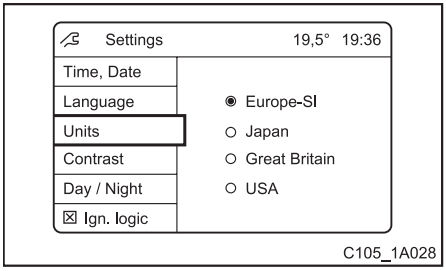
Selections are indicated by ► in front of the menu item.



Setting units of measure

The unit of measure to be used can be selected from the settings menu. Selections are indicated by ● in front of the menu item.

Note For Australia and New Zealand select the “Europe - SI” option.

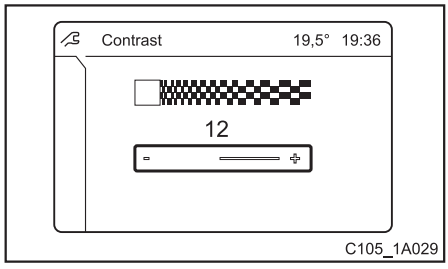


Adjusting display mode

The display can be adjusted to suit the light conditions – black or coloured text on a light background or white or coloured text on a dark background. Select from the settings menu **Day/Night** then select the desired option.

Adjusting display contrast

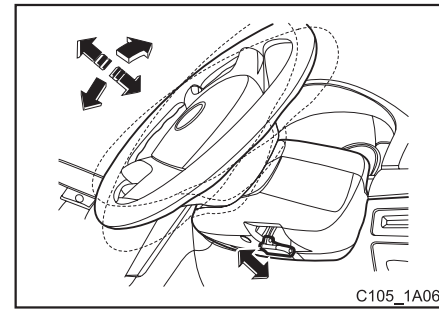
Select from the menu item, **Contrast** and adjust as required.



STEERING, HORN, HAZARD WARNING

Tilt and telescopic steering

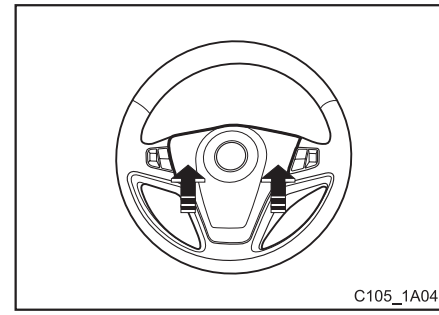
The tilt/telescopic steering lever is located on the underside of the steering column. To adjust the height or the reach of the steering wheel, push the lever downward, this unlocks the steering column. Move the steering wheel to the desired height and reach, then pull the lever upward to lock the steering column. Try moving the steering wheel up and down to ensure it is securely locked into position.


C105_1A060

WARNING
As with all the other driver position controls, do not attempt to adjust the steering wheel while driving.

Horn

To sound the horn, press the horn symbol on either side of the steering wheel centre pad. The horn will sound regardless of ignition switch position.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Hazard warning

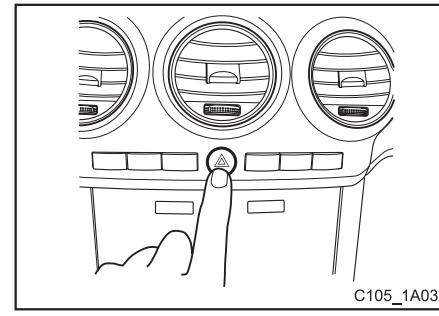
Use the hazard warning to warn other drivers any time your vehicle becomes a traffic hazard, day or night. Avoid stopping on the roadway if possible.

Press the switch located below the right centre air vent, to switch the hazard warning flasher on and off.

When switched on, all turn signals continuously flash.

Note

- The hazard warning flasher works regardless of the ignition switch position.
- The use of the hazard warning flashers while the vehicle is moving may be illegal in some States.


C105_1A039

WIPERS AND WASHERS

Windscreen wipers

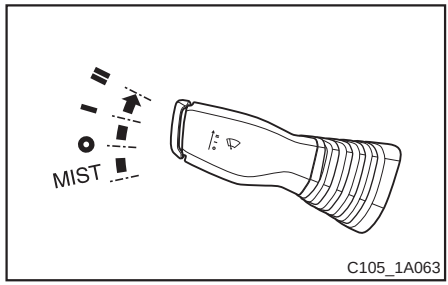
To operate the windscreen wipers, turn the ignition switch to the **ACC** or **ON** position and move the windscreen wiper/washer lever to one of the following five positions:

MIST To operate the wipers once during light rain or mist, move the windscreen wiper lever downward and release it.

O System off. Default position.

– Continuous wipe, slow speed. Move the lever up two levels.

= Continuous wipe, fast speed. Move the lever up three levels.



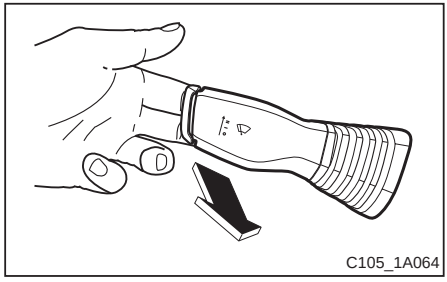
C105_1A063

WARNING
- Switch the wipers off by setting the lever to the **O** position before entering a car wash.

Front washer

To spray washer fluid onto the windscreen, pull the windscreen wiper lever toward you. Even if the wiper setting is not selected, the washer will spray fluid and the wipers will operate for two cycles, pause for 2 seconds then wipe for one more cycle.

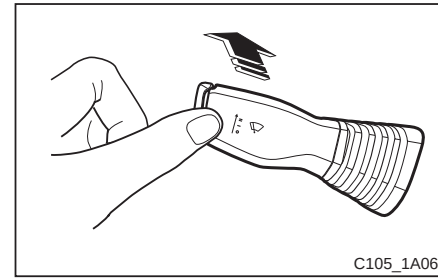
Note Never operate the wipers on dry glass, as this would damage the rubber and scratch the windscreen. Ensure the wipers are clear of any snow or ice before switching them on.


C105_1A064

WIPERS AND WASHERS cont.

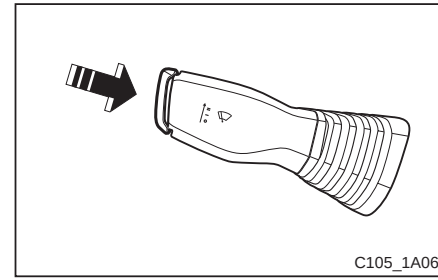
Rear wiper

To switch the rear wiper on, push the wiper lever toward the instrument panel, the wiper will operate with a regular cycle.


C105_1A065

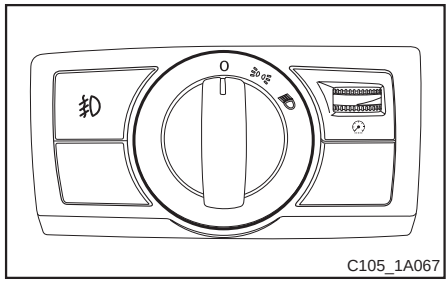
Rear washer

To spray washer fluid push the button at the end of the lever until the washer begins. When the button is released the washers will stop and the wipers will continue to wipe for three cycles.


C105_1A066

LIGHTS

Headlamp switch



The headlamp switch controls the following:

O Headlamps off.

Parking lamps, number plate lamps, instrument panel lamps are illuminated. The headlamps will not come on.

The low beam headlamps and all of the above lamps are illuminated.

Lamps on reminder

If opening the drivers door with the ignition in the LOCK position and the light switch in the ≡OO≡ or the position, a warning chime will sound, if the light switch is turned off then on again while the chime is sounding the chime will be cancelled.

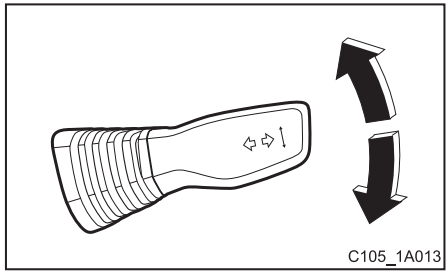
Battery saver

The battery saver prevents the battery from being discharged.

If the headlamps are left in the ON position, they will switch off automatically 10 minutes after the ignition switch is turned to the LOCK position.

Note If the lights are switched on 10 minutes after this feature is activated, the battery saver will not function.

Parking lamps



The front parking lamp and tail lamp on either the left or right hand side, can be activated when the vehicle is parked:

1. Set the headlamp switch to the **O** position.
2. Turn the ignition to the LOCK position.
3. Move the turn signal lever down, for right side illumination or up, for left side illumination.

As a check, an acoustic signal sounds and the turn signal indicator lamp on the respective side illuminates.

Remove the ignition key before leaving the vehicle.

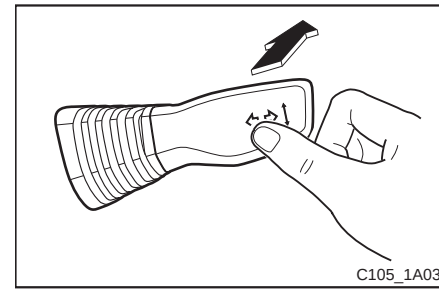
To switch the parking lamps off, turn the ignition to the ON position or move the turn signal lever to the centre position.

LIGHTS cont

High/low beam

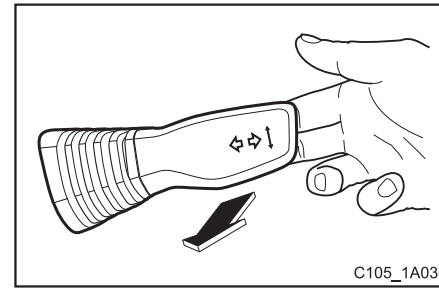
Switching between high and low beam requires the low beam lamps to be on. Push the lever toward the front of the vehicle to switch from low beam to high beam and return the lever to the original position for low beam.

The headlamp high beam indicator lamp on the instrument panel illuminates when the headlights are in high beam.


C105_1A035

Flashing high beam

It is also possible to flash the high beams for signalling purposes by pulling the lever toward the steering wheel (even with the headlamps switched off). The lights remain in high beam as long as the lever is held in this position.


C105_1A036

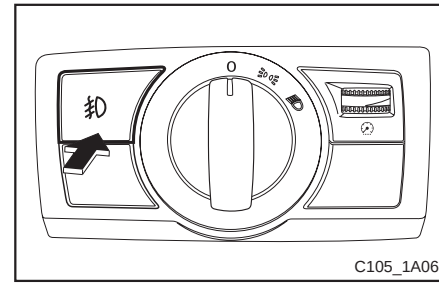
Front fog lamps

The front fog lamps provide extra illumination to the sides of the road ahead and improve visibility in fog or snow conditions.

To switch the front fog lamps on make sure the headlight switch is in the ≡0≡ or position, then press the button on the left-hand side of the light switch.

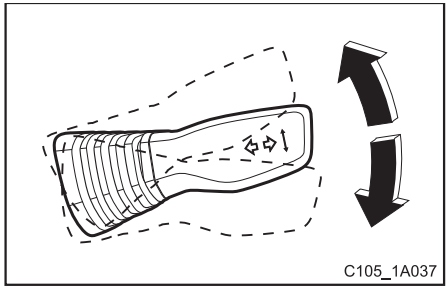
Note The instrument panel front fog lamp indicator illuminates when the front fog lamps are operating.

To switch the front fog lamps off, press the button on the left-hand side of the light switch again and the fog lamps will switch off.


C105_1A068

LIGHTS cont.

Turn signals



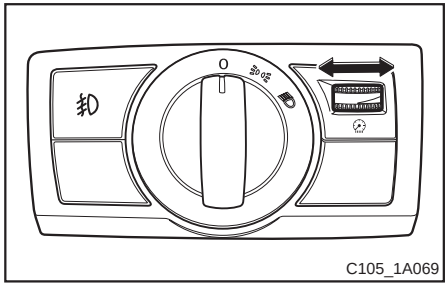
The turn signal lever is on the right-hand side of the steering column. Push the lever up to signal a left turn and down to signal a right turn.

In some turns (such as changing lanes), the steering wheel is not turned far enough to cancel the turn signal. So, to indicate a lane change, move the lever part way and hold it. The lever will return to the neutral position when you release it.

An arrow on the instrument panel flashes when the turn signals are in operation.

Note When the turn signal lever is moved slightly upward or downward and released, the turn signal lamps will flash automatically three times.

Dimmer – instrument lighting



To adjust the instrument lighting brightness, ensure the headlights or park lamps are switched on. To dim the instrument illumination, move the wheel to the left, to brighten the instrument illumination, move the wheel to the right.

Note When opening the driver's door or when pressing the unlock button on the remote keyless entry transmitter, the instrument panel lamps will illuminate automatically and stay illuminated for approximately 30 seconds or until the ignition switch is turned to the ACC (accessories) position.

CRUISE CONTROL

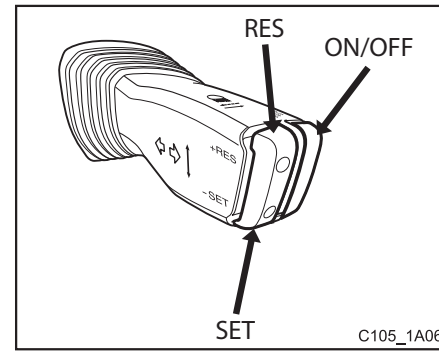
Description

The cruise control maintains the speed of the vehicle from approximately 40 km/h and upward without having your foot on the accelerator pedal. When the brakes are applied the cruise control disengages.

If your vehicle is in cruise control mode when the traction control system begins to limit wheel spin, the cruise control will automatically disengage. When road conditions allow you to safely use it again you may switch the cruise control back on.

To set initial speed

- Press the ON/OFF button located on the indicator stalk, to switch the cruise control on.
- Accelerate to the desired speed (above 40 km/h).
- Press the SET button and release it. An indicator lamp on the instrument panel will illuminate to show cruise control is on.
- Take your foot off the accelerator pedal.



To adjust the set speed

There are two ways to increase the set speed:

1. Use the accelerator pedal to get to a higher speed, press the RES button, then release the button and the accelerator pedal. The vehicle now maintains the new set speed.
2. Press and hold the RES button until you get to the desired higher speed, and then release the button. To increase a set speed by small amounts, press the RES button briefly then release it. Each time you do this the set speed increases by 2 km/h.

There are two ways to reduce the set speed:

1. Press and hold the SET button until you reach the desired lower speed, then release the button.
2. To decrease a set speed by small amounts, press the SET button briefly then release it. Each time you do this the set speed decreases by 2 km/h.

Passing another vehicle

Depress the accelerator pedal to increase your speed. When you take your foot off the pedal, the vehicle will slow down to the cruise control speed set earlier.

Resume set cruise speed

If after braking you want to return to the previously set cruise speed, press the RES button and the vehicle will return to the selected speed.

CRUISE CONTROL cont.

Using cruise control on hills

When going up a steep hill, you may have to depress the accelerator pedal to maintain your speed. When going downhill, you may have to brake or shift to a lower gear to decrease the vehicles speed. Applying the brakes disengages the cruise control.

Switching off the cruise control

There are two ways to switch off the cruise control:

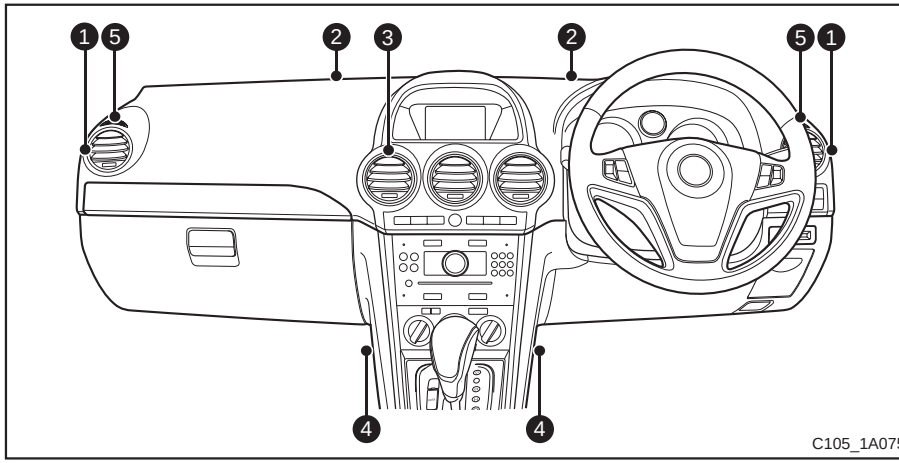
- Depress the brake pedal
- Press the ON/OFF button on the indicator stalk.

Note When the cruise control or the ignition is switched to the OFF position, the cruise control set speed memory is erased.

WARNING

- Do not use the cruise control when road or driving conditions require varying speeds, A consistent speed isn't practical in heavy or varying traffic, or on winding, slippery or rough roads.
- The cruise control does not apply the vehicles brakes. Therefore the vehicle may gain speed when going down steep hills.
- When climbing steep hills (particularly when towing) it is possible for the vehicle to lose speed. You may need to switch off the cruise control and use the accelerator pedal.

VENTILATION SYSTEM



1. Side vents
2. Windscreen demister vents
3. Centre vents
4. Floor vents
5. Front door glass demister vents

Air outlets

The direction of air flowing out of the vents can be changed by moving the airflow deflectors up, down, left or right.

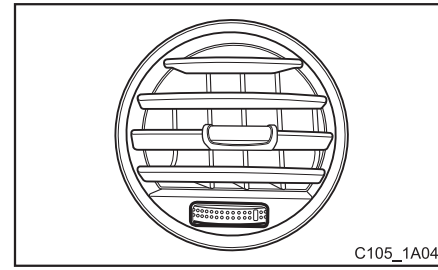
Some outlets may be equipped with a shut off wheel.

Centre vents

Rotate the wheel to the right to close the outlet or to the left to open it.

Side vents

Rotate the wheel to the right to close the outlet or to the left to open it.



Windscreen demister vents

These vents are located at the base of the windscreen and are controlled by the air outlet selector.

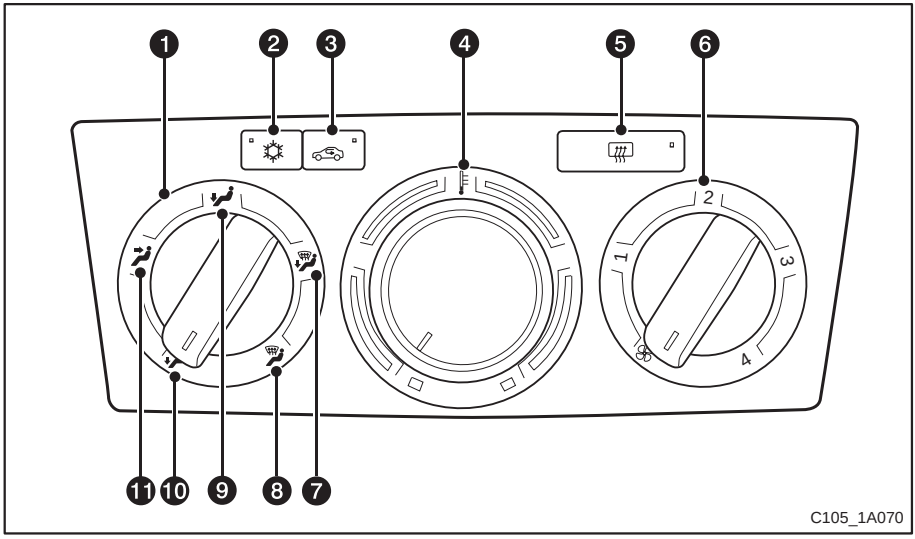
Floor vents

These vents are located under the dashboard and are controlled by the air outlet selector.

Front door glass demister vents

These vents are located above the side vents and are controlled by the air outlet selector.

MANUAL HEATING, AIR CONDITIONING



1. Air outlet selector
2. Air conditioning button
3. Air recirculation button
4. Air temperature selector
5. Rear window demister button
6. Fan speed selector
7. Floor level and demister
8. Windscreen demister
9. Floor level ventilation
10. Face and floor level ventilation
11. Face level ventilation

Air outlet selector

Turn clockwise or anticlockwise to change the current air flow mode.

Air temperature selector

Turn clockwise or anticlockwise to increase or decrease the temperature of the air flowing from the system.

Fan speed selector

Turn clockwise or anticlockwise to increase or decrease the fan speed. The fan must be turned on to run the air conditioning compressor.

Note When the fan speed selector is turned anticlockwise all the way, the air conditioning system turns off. However, if the recirculation button is switched off, outside air comes into the vehicle when it is moving.

MANUAL HEATING, AIR CONDITIONING cont.

Air outlet selector

Different vents are selected when the air selector is set in the following positions:

Air flows from the four face level outlets in the instrument panel.

The blending mode directs airflow through both the instrument panel outlets and the floor outlets.

This mode also directs airflow through the rear floor outlets.

The heater mode directs most of the airflow through the floor outlets, with some air going to the windscreen and side window demister vents.

This mode also directs airflow through the rear floor outlets.

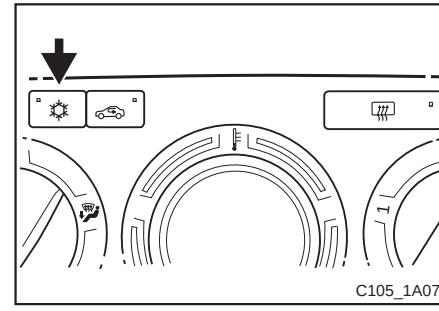
This mode divides airflow equally between the windscreen demister outlets and the floor outlets. A small amount of air will also be directed toward the side windows.

This mode also directs airflow through the rear floor outlets.

Air flows from the window demist and windscreen demist outlets. A small amount is also directed to the side vents.

Note Do not drive the vehicle until all the windows are clear.

Air conditioning button



Turn the fan speed selector to the desired speed.

Note The air conditioning does not operate when the fan speed selector is in the off position.

Press the button to switch the air conditioning on and off. When the air conditioning is on, an indicator light illuminates to show that it is working.

For a quick cool down on hot days, do the following:

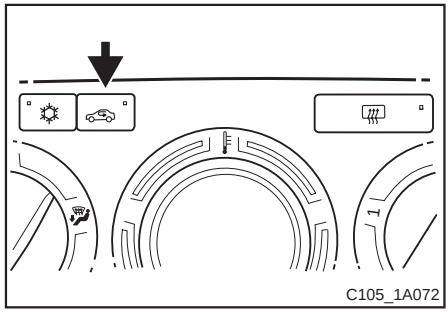
1. Open the windows briefly to let hot air escape.
2. Press the air recirculation button.
3. Press the air conditioning button.
4. Select the coolest temperature from the air temperature selector.
5. Select the highest fan speed using the fan speed selector.

Note

- Using these settings together for long periods of time may cause the air inside the vehicle to become too dry. To prevent this from happening, after the air has cooled, switch the air recirculation button off.
- You may notice water dripping under the vehicle occasionally after driving with the air conditioning on. This is normal as the air conditioning system removes moisture from the air inside the vehicle.
- Because the compressor of the air conditioning system shares the engine power, you may notice a slight change in engine power and performance when the compressor operates.

MANUAL HEATING, AIR CONDITIONING cont.

Air recirculation button



Press the button to switch recirculation on. When recirculation is on, an indicator light illuminates to show that it is working.

Press the button again to switch recirculation off and allow outside air into the vehicle.

When air is recirculated inside the vehicle it helps to cool the inside air quickly and prevents outside air and odours from entering.

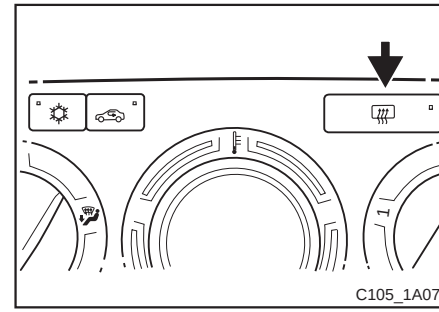
Note Using recirculation for an extended period of time may cause the windows to fog up. If this happens, switch the recirculation button off.

Operating tips

- To conserve fuel, switch off the air conditioner when it is not required.
- Keep the area under the front seat clear of objects to help air circulate through the vehicle.
- In hot weather before using the air conditioning system, open the windows for a few minutes to permit hot air to escape if the vehicle has been parked in direct sunlight.
- For maximum cooling, select the ventilation mode and the highest fan speed. Make sure the air conditioning is turned on. Rotate the air temperature selector to select the coolest temperature and activate the recirculation mode.
- Switch on the air conditioning for a few minutes at least once a week, even in the winter or when the air conditioning system is not being used regularly. This maintains proper lubrication of the compressor and seals, prolonging the service life of the system.
- Driving in stop-and-go traffic may reduce the effectiveness of the air conditioning system.
- To quickly demist the front windscreen, use the demister mode, set the temperature to warm, and set the fan at the highest speed.
- For improved demisting of the windows on rainy days or in high humidity, switch the air conditioning on.
- Windscreen demister mode will operate with the air conditioner on or off.
- Do not use the heating/demisting mode or the demisting mode in extremely humid weather when the temperature control is set to cold.
- If occupants are smoking, it is recommended that recirculation is not used.
- When following another vehicle on dusty roads, or to prevent exhaust fumes or odours entering your vehicle, select recirculation and close the windows.
- When driving on unsealed roads but where the dust is not airborne, select fresh air (with the windows closed) and set the fan preferably on a high speed so that positive air pressure in the vehicle will prevent any dust entry.

MANUAL HEATING, AIR CONDITIONING cont.

Rear window demister button



The ignition must be switched on for this feature to work.

Press the button to demist the rear window. When the demist button is on, an indicator light illuminates to show that it is working.

To switch rear demist off press the button again. Otherwise, it will go off by itself after 15 minutes. To switch back on just press the button again.

Note Do not use the rear window demister under the following conditions:

- Engine is not running.
- You are just starting your vehicle.
- There is a buildup of snow or ice on the rear window.

Operating the rear window demister under these conditions could drain the battery.

WARNING
Less than clear vision for the driver can lead to an accident resulting in personal injury and damage to your vehicle or other property.

Heating

Use the maximum heating mode for quick heating of the passenger compartment. Do not use maximum heating for lengthy periods, as the interior air may become stale and the windows may fog. To clear the windows switch off the recirculation mode to allow fresh air into the passenger compartment.

For maximum heating:

1. Press the air recirculation button. The indicator illuminates.
2. Turn the air outlet selector to or .
3. Turn the air temperature selector to the warmest position.
4. Turn the fan speed selector to the maximum speed.

Passenger compartment pollen filter

A passenger compartment pollen filter is fitted to filter outside air entering the vehicle.

The filter removes contaminants such as pollen and dust from the air entering the vehicle.

Proper maintenance of the passenger compartment pollen filter is required. Refer to the Service/warranty booklet.

NOTES

CHAPTER 1B

Audio

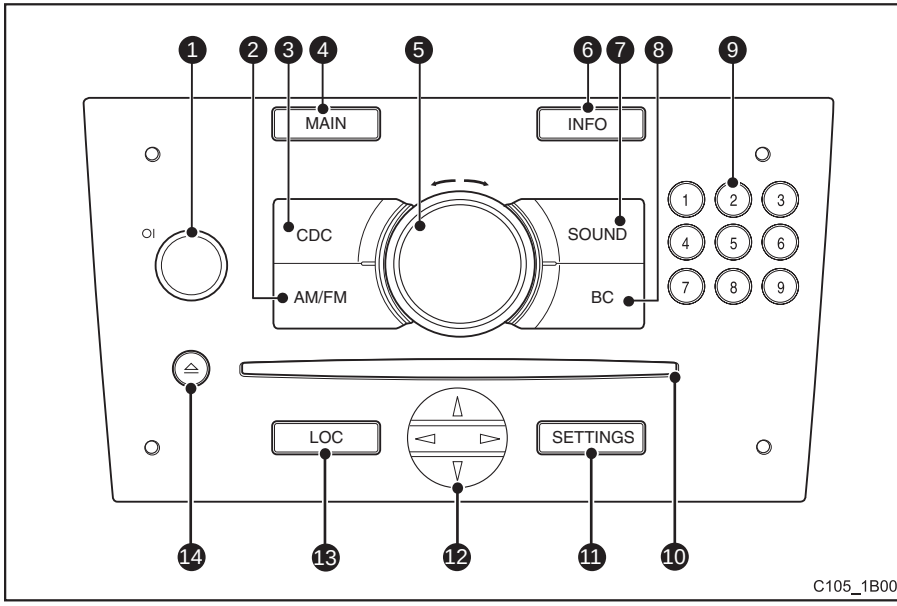
Page

Overview 1B-2
Steering wheel remote controls ... 1B-3
Important information 1B-4
Switching on/off 1B-6
Audio settings 1B-7
Radio operation 1B-10
CD operation 1B-14
Antenna information 1B-21
Notes on compact discs 1B-22
Glossary of terms 1B-23

*The asterisk signifies equipment options not in all vehicles, model variants, engine options, optional equipment and Genuine Holden Accessories (and Parts).

OVERVIEW

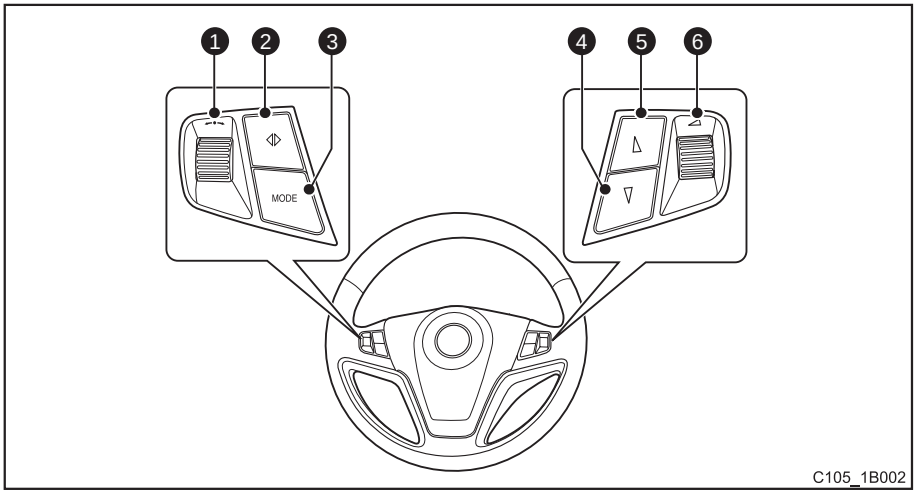
CD PLAYER AND RADIO CONTROLS



Display and functions

1. Power/volume knob
2. AM/FM button
3. CD player program selection
4. Main menu button
5. Multifunction knob
6. Information page button
7. Sound function program button
8. Board computer button (Not applicable for this vehicle)
9. Radio station buttons
10. CD slot
11. Settings button
12. Radio and CD 4 way switch
13. Adjust the sensitivity of station search
14. CD player menu

STEERING WHEEL REMOTE CONTROLS



1. This setting wheel provides the same functions as the multifunction knob.
2. Radio station and CD memory button.
3. This button switches the audio system between radio and CD.
4. Radio station search and CD player track search.
5. Radio station search and CD player track search.
6. This setting wheel provides volume adjustment for the radio and CD player.

IMPORTANT INFORMATION

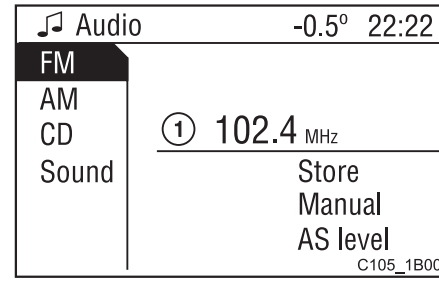
Security system

Your audio unit includes an electronic security system to prevent theft. This security system allows the audio system to operate only in your vehicle, if the audio system is removed for any reason it will not function in another vehicle.

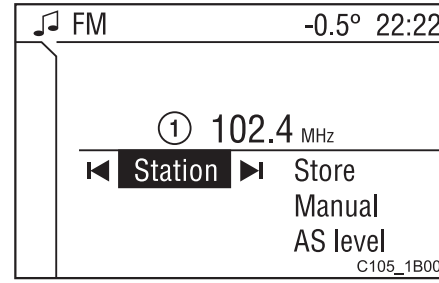
Menu concept

The audio system's menu structure features various types of menu pages:

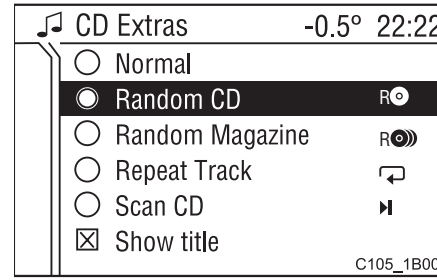
- Selection pages



- Feature pages



- Settings pages



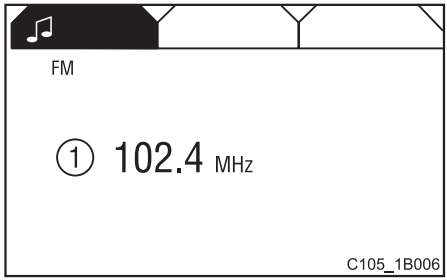
IMPORTANT INFORMATION cont.

Main menu

The main menu is the display that provides the user with audio system information.

To access the main menu proceed as follows:

1. Turn the multifunction knob ❺ to the right until menu item “Main” appears.
2. Press the multifunction knob ❺.
3. The main menu will be displayed.



Care of your audio system

Your audio system has been developed and manufactured with great care and should be treated with care.

Observing the recommendations listed below will prevent your warranty from expiring prematurely and ensure your enjoyment for many years. Heed the following when using your audio system:

Never try to open the audio system. Improper handling may damage the audio system.

Never use aggressive chemicals, cleaning liquids or agents to clean the audio system. To clean your audio system, use a soft cloth moistened with a mild soap solution.

Do not paint or colour the audio system. Paint may make moving parts sticky and impair correct functionality.

Do not store combustible liquids, gases or explosives in the same room with the audio system, its parts or accessories.

The audio system should only be serviced by an approved repairer. Incorrect installation or servicing of the audio system may have dangerous consequences and result in your warranty becoming void.

Audio system faults

In case of faulty operation, consult your Holden Dealer.

SWITCHING ON/OFF

Power on

When the power is OFF press the **OI** power/volume rotary knob ❶ to activate the audio system, or the ⏏ button ⓮ to activate the CD player. The radio, CD or MP3 function will be shown on the display screen. The operating mode will be the same as before the audio system was switched off.

Power off

When the power is ON press and hold the **OI** power/volume rotary knob ❶ to switch the system OFF.

Automatic power on

If the automatic switch on is enabled, the audio system can be switched off and on via the ignition switch. The link between the audio system and the ignition is preset in the factory, it can also be disabled.

Enable/disable ignition logic

1. Select the main menu.
2. Press the SETTINGS button ⓫.
3. Select the enable/disable ignition logic tick box.
4. Enabled ☒, on the right-hand side of the display this message appears “The radio will be switched on/off automatically with the ignition”.
5. Disabled ☐, on the right-hand side of the display this message appears “The radio can only be switched on via ON/OFF button”.

Automatic switch off

The audio system switches off automatically after one hour if it has been switched on with the ignition switch in the OFF position.

Volume control

Rotate the **OI** power/volume rotary knob ❶ clockwise to increase the volume and anticlockwise to decrease the volume.

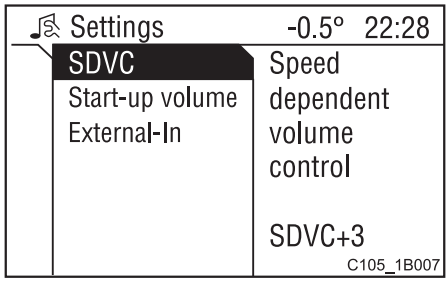
AUDIO SETTINGS

Speed dependant volume control (SDVC)

To compensate for the ambient and rolling noise, the volume of the audio system is adjusted to the speed of the vehicle. The SDVC function can be used to adjust the speed dependant volume setting.

This function is set in the tuner menu FM/AM button ❷ or the CDC button ❸.

1. Press the SETTINGS button ⓫.
2. The audio settings menu will be displayed, select from the menu Volume.
3. The volume menu will be displayed, select from the menu SDVC.
4. A slider for SDVC will be displayed.
5. Turn the multifunction knob ❺ until the desired value is set.
6. Press the multifunction knob ❺ to store the selection, the settings menu will be displayed.



Volume menu

The following items are available in the volume menu:

- SDVC – Speed dependant volume control
- Start up volume – Maximum volume at switch on.

Start up volume

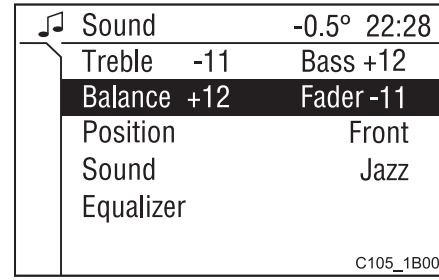
This function is set in the tuner menu FM/AM button ❷ or the CDC button ❸.

1. Press the SETTINGS button ⓫.
2. The audio settings menu will be displayed, select from the menu Volume.
3. The volume menu will be displayed, select from the menu Volume at switch-on.
4. A slider for adjustment of the maximum volume at switch on will be displayed.
5. Turn the multifunction knob ❺ until the desired value is set.
6. Press the multifunction knob ❺ to store the selection, the settings menu will be displayed.

AUDIO SETTINGS cont.

Sound settings

Select from the sound menu that is displayed when the SOUND button ❼ is pressed or via the audio menu, the following menu items are listed.



Bass control

Bass control is used to adjust the bass (low frequency) sound quality. The bass settings apply to the currently selected audio source and are stored separately for FM/AM radio and the CD player.

1. Select from the menu item, Treble - Bass from the sound menu and the Treble - Bass menu will be displayed.
2. Select the menu item Bass, the bass slider will be displayed.
3. Rotate the multifunction knob ❺ clockwise to increase the bass level, anticlockwise to decrease the bass level.
4. Press the multifunction knob ❺ to store the selection.

Treble control

Treble control is used to control the treble (high frequency) sound quality. The treble settings apply to the currently selected audio source and are stored separately for FM/AM radio and the CD player.

1. Select the menu item Treble - Bass from the sound menu and the Treble - Bass menu will be displayed.
2. Select the menu item Treble, the treble slider will be displayed.
3. Rotate the multifunction knob ❺ clockwise to increase the treble level, anticlockwise to decrease the treble level.
4. Press the multifunction knob ❺ to store the selection.

Fader control

Fader control adjusts the sound separation between the front and rear speakers.

1. Select from the menu item, Balance - Fader from the sound menu and the Balance - Fader menu will be displayed.
2. Select from the Balance - Fader menu Fader, and the fader slider will be displayed.
3. Rotate the multifunction knob ❺ clockwise to bias the sound toward the front speakers.
4. To bias the sound toward the rear speakers, rotate the multifunction knob ❺ anticlockwise.
5. Press the multifunction knob ❺ to store the selection.

AUDIO SETTINGS cont.

Balance control

Balance control adjusts the volume separation between left-hand and right-hand speakers.

1. Select the menu item Balance - Fader from the sound menu and the Balance - Fader menu will be displayed.
2. Select from the Balance - Fader menu Balance, and the balance slider will be displayed.
3. Rotate the multifunction knob ❺ clockwise to bias the volume to the right-hand speakers.
4. To bias the volume to the left-hand speakers, rotate the multifunction knob ❺ anticlockwise.
5. Press the multifunction knob ❺ to store the selection.

Equalizer music control

The equalizer is used to select between 7 pre-defined sound equaliser settings.

1. Select the menu item Equalizer, from the sound menu.
2. The equalizer menu will be displayed.
3. A slider is provided for each of the 7 frequencies.
4. Select the desired sound frequency, and the slider will be marked.
5. Rotate the multifunction knob ❺ clockwise or anticlockwise to change the equalised music style.
6. Press the multifunction knob ❺ to store the selection.

Position

This function is used to optimise the surround sound (running time, frequency response and volume) using preset values.

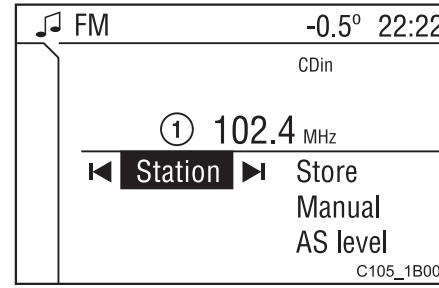
1. Select the menu item Position, from the sound menu the following options will be displayed:
   – Driver: Optimization of surround sound for the driver
   – Front: Optimization of surround sound for the front seats
   – All positions: Optimization of surround sound for all seats.
2. Select the desired option.

Sound

1. Select the menu item Sound, from the sound menu the following options will be displayed: User, Jazz, Speech, Pop, Classical, Rock.
2. Select the desired option.

RADIO OPERATION

Operation



1. Switch the audio system on by pressing the **O|** power/volume knob ❶.
2. Press the **AM/FM** button ❷.
3. The tuner menu will be displayed and the last station selected to will be playing.

Selecting a radio band

The following bands are available: AM and FM.

1. With the tuner menu displayed turn the multifunction knob ❺ to the left until the menu item Return is displayed.
2. Press the multifunction knob ❺ and the audio menu will be displayed.
3. Select the desired band, AM or FM.
4. The last station selected will be displayed and playing.

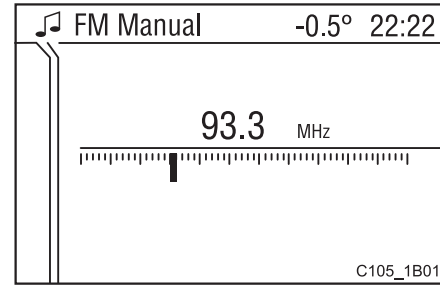
Manual station search

1. Choose either AM or FM band using the AM/FM button ❷.
2. Press and hold the 4 way switch ⓬ △ or ▽ button until the desired frequency is reached.

   Coarse tuning:
   - Press and hold the 4 way switch ⓬ △ or ▽ button until the desired frequency is almost reached.

   Fine tuning:
   - Tap the 4 way switch ⓬ △ or ▽ button repeatedly until the exact frequency is reached.

Manual tuning



The station search using the multifunction knob ❺ is started from the AM/FM button ❷ menu.

1. Select the menu item Manual, from the tuner menu.
2. A slider with the entire waveband will be displayed, turn the multifunction knob ❺ until the exact frequency is reached.
3. The newly tuned radio station will be playing.
4. Press the multifunction knob ❺ to store the selection.
5. The tuner menu is displayed.
6. The newly tuned in station will be displayed.

RADIO OPERATION cont.

Local/DX function (LOC)

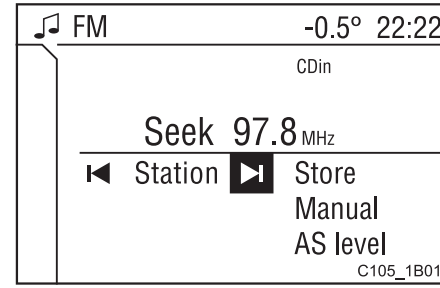
The LOC function has two search levels with different sensitivities.

1. Press the **LOC** ⓭ button, the current status LOC ON or LOC OFF will be displayed.
2. Press the **LOC** ⓭ button again to switch on the LOC function.
   - The first search carried out is at the lower sensitivity (LOCAL) to look for the station with the next strongest signal. If the radio can not find a station with a strong signal, the second search is carried out at a more sensitive level (DX) to find stations with weak signals.
   - If the second search does not find a station, the most recently active frequency is restored.
   - If no further search is started within a minute, the lower sensitivity level (LOCAL) is automatically reset for the next search.
   - The LOCAL/DX function setting can not be changed in CD/MP3 mode.
   - If the setting is LOC OFF, a high sensitivity search (DX) is carried out.

Automatic station search (option 1)

The radio searches for the next receivable station, if LOC is active, the radio searches for a station with the next strongest signal. If it is not active, the radio searches for the next station with signal. Refer to *Local/DX function* above.

Press and hold the 4 way switch ⓬ ◅ or ▻ button until Seek is displayed.



Automatic station search (option 2)

Select the menu item ⓬ ◅ or ▻ button in the radio menu, the radio will be muted until the station is found.

If the frequency of the station is known, keep the 4 way switch ⓬ ◅ or ▻ button pressed until the frequency is almost reached.

After releasing the 4 way switch, the next receivable station is automatically tuned in.

If the radio can not find a station, it switches automatically to a more sensitive search level (DX). If a station still can not be found the last active station will be set.

Station memory

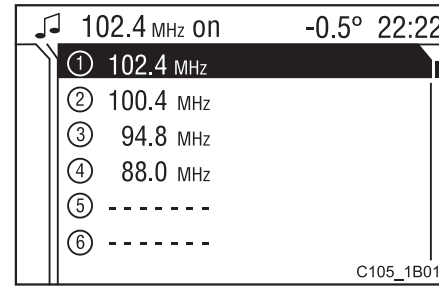
Separate memory slots are available for each wavelength (FM, AM) as follows:

- 9 X FM stations, manually stored
- 9 X FM-AS stations, automatically stored
- 9 X AM stations, manually stored
- 9 X AM-AS stations, automatically stored.

The memory slots can be selected directly in the respective wavelength via the station buttons ❾ or via the list of stations.

RADIO OPERATION cont.

Manual storing (option 1)



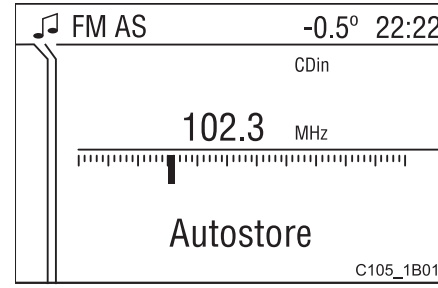
Two options are available for manual station storing:

1. Tune into the desired station, refer to *Automatic station search* previously in this chapter.
2. Press and hold the station button ❾ on which the tuned in station is to be stored.
3. The radio will be muted for a short time and will display the station previously stored in this memory slot.
4. The station tuned in will be audible again and the frequency displayed.
5. The station is now stored in the selected memory slot.

Manual storing (option 2)

1. Press the tuner menu FM/AM button ❷.
2. Set the desired station, refer to *Automatic station search* previously in this chapter.
3. Select from the menu Store.
4. A list of stored stations is displayed, select the memory slot required.
5. The tuner menu is displayed showing the new memory slot.
6. The station is stored in the desired memory slot.

Autostore (AS)



Automatic storing (AS) of any receivable station is possible in all wavebands. These stations are stored in a separate AS memory.

1. PressthetunermenuFM/AM button ❷.
2. Select from the menu Autostore. The Autostore menu is displayed and automatic station storing commences.
3. Nine stations with the strongest signal from the waveband selected will be stored to the memory slots 1 to 9.
4. After the stations have been stored, the desired station can be selected by pressing the appropriate station button ❾. Refer to *Selecting a station* below.

Note If you drive out of the reception area of a stored station then new stations will need to be stored.

Selecting a station

The desired radio band and mode need to be active, refer to *Selecting a radio band* previously in this chapter.

With the radio on and with a station playing select the desired station with the radio station buttons ❾.

RADIO OPERATION cont.

Peculiarities of FM mobile reception

A mobile FM receiver can not be expected to continuously provide the quality of FM reception you may have experienced on your home receiver. Contrary to popular opinion, FM broadcasts are not static free, and although your new radio has a built-in electronic interference absorption circuit some static will be evident from time to time especially in areas without a direct line of sight to the transmitter.

Your radio is also equipped with a soft mute function. The purpose of this is to attenuate the treble and audio level in weak signal areas to reduce the annoying background hiss which is customary to weaker FM reception. There are two phenomena peculiar to FM reception:

- **Flutter** - As FM signals reflect off solid objects it is possible to pass through areas of “SHADOW” caused by tall buildings or hilly terrain which effectively blocks out the signal. As the vehicle passes in and out of shadow areas the level of signal will vary at a rapid rate, creating a flutter type of interference to the signal.
- **Distortion (multipath)** - Distortion may occur when the direct signal from the transmitter and a reflected signal reach the antenna at the same time and either cancel or aid each other, like ghosting on a TV. This results in intermittent distortion of the signal while moving or constant distortion when stationary such as at a traffic light or when parked.

  Should this distortion occur while stationary, moving the vehicle approximately 1 or 2 meters would on most occasions correct the problem. Circuitry has also been included in this radio to reduce this type of distortion.

Radio reception

Due to varying reception locations, audio systems have performance limitations that may on occasions create the impression that your radio is malfunctioning.

AM and FM

There are two types of radio broadcasts in Australia. Amplitude Modulation (AM) in which the amplitude of the signal is varied to produce the sound and Frequency Modulation (FM) in which the frequency is varied to produce the sound.

Range

AM broadcasts tend to follow the earth’s curvature and also reflect from the upper atmosphere which enables long range reception especially after sunset.

FM transmissions are basically line-of-sight (similar to TV signals) and are reflected by buildings, mountains etc. but not by the upper atmosphere.

Interference

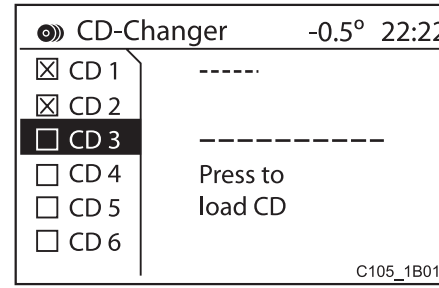
Interference is caused by local electrical disturbances. This can affect the amplitude of the signal being received.

AM signals are more prone to this type of interference than FM signals. This type of interference has little or no effect on the frequency of the received signal thus AM is susceptible to interference from power lines, fluorescent lighting, neon signs, traffic light control circuits, overhead tram wires and electrical storms.

With FM reception these amplitude variations are filtered out leaving a relatively clear signal, (refer to *Peculiarities of FM mobile reception* above) making this one of the major advantages of FM broadcasts.

CD OPERATION

Loading CDs



1. The audio system is equipped with a CD player for six disks.
2. Switch the audio system on by pressing the **OI** power/volume knob ❶.
3. The audio source last selected is displayed.
4. The audio source last set is played.
5. Select an empty CD compartment.
6. Please insert CD now will be displayed, insert the CD into the CD slot ❿.
7. The CD is automatically drawn inward, do not assist or prevent the CD from being drawn in.
8. Reading CD X will be displayed (X is the number of the CD slot), the tick box of the CD slot is marked enabled.
9. In the upper area of the display “CDin” is displayed for audio CDs and MP3 is displayed for MP3 disks.
10. The CD changer menu will not cancel until the CDC button ❸ is pressed, this allows more CDs to be inserted.

Note In the CD changer menu, the radio will play while changing CDs.

CD Playback

Switch from radio mode to CD mode as follows:

1. Ensure one or more CDs are in the CD player.
2. Press the CDC button ❸, the CD menu will then be displayed.
3. The CD will begin to play from the selected compartment.
4. Depending on the type of CD, different information will be displayed in the CD menu. Text information is only displayed if Show title is switched on from the extras menu.

The following information will be displayed:

- Audio CD: CD number, album name, track title and artist (depending on CD format)
- MP3 or mixed mode CD: CD number, album name, track title and artist
- Text CD: CD number, CD title, track number, track title and artist.

Note If no CDs are inserted, the CD changer menu will be displayed, refer to *Loading CDs* previously in this chapter.

CD OPERATION cont.

Track selection (option 1)

For audio CDs, the track is selected from the CD, for MP3 and mixed mode CDs the track is selected from the album.

With a CD playing, tap the 4 way switch ⓬ ◅ or ▻ button repeatedly until the desired track is displayed.

Track selection (option 2)

1. After pressing the CDC button ❸ turn the multifunction knob ❺ until menu item ⏮ or ⏭ is marked.
2. Press the multifunction knob ❺ repeatedly until the desired track is displayed.
3. The selected track will play.

Track selection (option 3)

1. After pressing the CDC button ❸ select the menu item “Track”.
2. A list of all tracks will be displayed.
3. The track that is currently playing will be marked with an arrow.
4. Select the desired track, the CD menu is displayed and the newly selected track is displayed.
5. The newly selected track will begin to play.

Fast search (option 1)

To find a certain point on a CD proceed as follows:

1. While a track is playing, press and hold the 4 way switch ⓬ ◅ or ▻ button until you reach the point desired.
2. The CD will play at an increased speed and reduced volume.

Fast search (option 2)

1. After pressing the CDC button ❸, select menu item ⓬ ◅ or ▻ button.
2. The CD will play at an increased speed and reduced volume.
3. Select the menu item ⓬ ◅ or ▻ button again when the desired passage is reached.

Note The fast search is not audible with MP3 tracks.

CD OPERATION cont.

Selecting a CD (option 1)

1. While a track is playing, press the appropriate number key button ❾, the CD player is muted.
2. If a CD has not yet been read “CD reading” appears on the display, the CD compartment selected and the track is displayed.
3. The CD will now be playing from the compartment selected.

Selecting a CD (option 2)

1. Tap the 4 way switch ⓬ △ or ▽ button repeatedly until the desired CD compartment is marked.
2. The CD player will be muted, if a CD has not yet been read “CD reading” appears on the display.
3. The CD compartment selected and the track are displayed.
4. The CD will now be playing from the compartment selected.

Selecting a CD (option 3)

1. Starting from the CD menu, CDC button ❸, select the desired CD as follows:
2. Select from the menu “CD”, a CD album list is displayed.
3. The selected CD will be underlined.
4. Select the desired CD, the newly selected CD will be displayed.
5. The newly selected CD will now be playing.

Note

- If no other CDs are inserted, playback of the current CD will continue.
- If it is an MP3 or mixed mode CD with several albums, these are also shown on the list.
- If it is a mixed mode CD, the tracks from the audio port are played first.

Album or CD selection for MP3 or mixed CDs (option 1)

1. While a track is playing, press the 4 way switch ⓬ △ or ▽ button until the album or CD you want is displayed.
2. The first track from the CD or album will play.

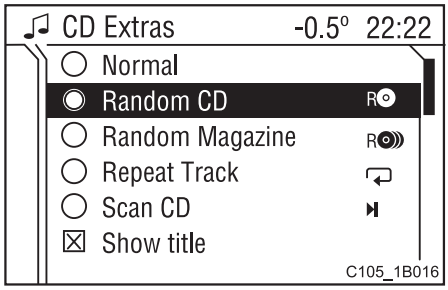
Album or CD selection for MP3 or mixed CDs (option 2)

1. After pressing the CDC button ❸, select menu item “Album”, a CD album list will be displayed.
2. The current CD is underlined and the album which has just been played is marked with an arrow.
3. Select the album or CD desired, the CD menu will be displayed.
4. The first track from the newly selected album or CD is displayed.
5. The newly selected track will play.

CD OPERATION cont.

CDC extra features

The following option fields are available in the “Extras” menu.



- **Normal**: This option is used to disable the functions random CD/magazine, repeat track and scan CD.
- **Random CD**: See random play CD or magazine random.
- **Random magazine**: See random play CD or magazine (random).
- **Repeat track**: See Repeat track in this section.
- **Scan CD**: See scan CD in this section.
- **Show title**: See enabling/disabling CD text in this section.

Random play CD or magazine (random)

- **Audio CD**: If playing a audio CD using random play, the tracks of the CD will be played in a random order.
- **MP3 CD**: If there are 5 or fewer albums on an MP3 CD, 4 tracks per album are played in random order. If there are more than 5 albums on the MP3 CD, one track respectively is played per album.
- **Mixed mode CD**: On a mixed mode CD, the tracks from the audio port are played first in random order, then the tracks from the MP3 part are played as described above.

To switch on CD random play

1. After pressing the CDC button ❸, select menu item “Extras”.
2. The Extras menu is displayed, select option field “Random CD”.
3. The CD menu is displayed and the symbol R is displayed.

Random magazine (random)

In random magazine mode the tracks of all the CDs inserted are played in random order.

- **Audio CD**: 4 tracks per CD are plated before changing to the next CD.
- **MP3 CD**: If there are 5 tracks or fewer albums on an MP3 CD, 4 tracks per album are played before changing to the next CD. If there are more than 5 albums, one track per album is played before changing to the next CD.
- **Mixed mode CD**: On a mixed mode CD, first of all 4 tracks from the audio part are played in random order and then the system changes to the next CD. The next time the system changes to the mixed mode CD, the tracks from the MP3 part are played as described above.

Note These rules protect the mechanical system and avoid relatively long interruptions caused by changing CDs.

CD OPERATION cont.

Switch on random magazine (random)

1. After pressing the CDC button ❸, select menu item “Extras”.
2. The extras menu will be displayed, select option field “Random Magazine”.
3. The CD menu is displayed and the symbol R is displayed.

Switch off random play CD or magazine (random)

1. After pressing the CDC button ❸, select menu item “Extras”.
2. The extras menu will be displayed, select option field “Normal”.
3. The CD menu is displayed and the symbol R or R is no longer displayed.

Switching on repeat track (option 1)

The repeat track function repeats the current track.

1. While a track is playing, press and hold the 4 way switch ⓬ ▽ until the ↩ symbol is displayed.
2. “Repeat ON” is displayed for 3 seconds, and the track is played back continuously.

Switching on repeat track (option 2)

1. After pressing the CDC button ❸, select menu item “Extras”.
2. The extras menu will be displayed, select option field “Repeat Track”.
3. The CD menu is displayed and the symbol ↩ is displayed, and the track is played back continuously.

Switching off repeat track (option 1)

1. Hold the 4 way switch ⓬ ▽ until the ↩ symbol is no longer displayed.
2. “Repeat OFF” is displayed for about 3 seconds.

Switching off repeat track (option 2)

1. Select a new track, refer to track selection in this section.

Switching off repeat track (option 3)

1. After pressing the CDC button ❸, select menu item “Extras”.
2. The extras menu will be displayed, select option field “Normal”.
3. The CD menu is displayed and the symbol ↩ is no longer displayed.

Switching on scan CD (option 1)

The scan CD function plays the first 10 seconds of each track on the CD.

1. While a track is playing, press and hold the 4 way switch ⓬ ▽ until the ▶| symbol is displayed.
2. Then the text “Scan Tracks” will be displayed for 3 seconds.

CD OPERATION cont.

Switching on scan CD (option 2)

1. After pressing the CDC button ❸, select menu item “Extras”.
2. The extras menu will be displayed, select option field “Scan CD”.
3. The CD menu is displayed and the symbol ▶I is displayed.

Switching off scan CD (option 1)

1. Press and hold the 4 way switch ⓬ △ until the ▶I symbol is no longer displayed.

Switching off scan CD (option 2)

1. Select a new track, see track selection in this section.

Switching off scan CD (option 3)

1. After pressing the CDC button ❸, select menu item “Extras”.
2. The extras menu will be displayed, select option field “Normal”.
3. The CD menu is displayed and the symbol ▶I is no longer displayed.

Enabling and disabling CD text

Different information is displayed depending on whether CD text is enabled or disabled.

Enabled: CD Name, track name, artist’s name, album name.

Disabled: Track number, CD-number, album number, playing time.

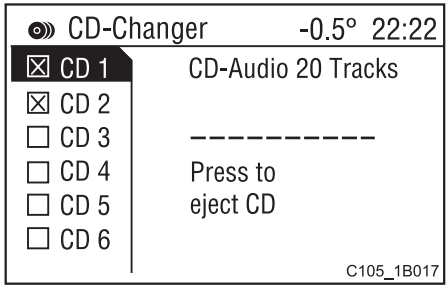
Note Not all CDs contain text, In this case track number and playing time are always displayed.

1. After pressing the CDC button ❸, select menu item “Extras”.
2. The extras menu will be displayed, select option field, enable/disable the “Show title” tick box.
   Enabled: ☒ or Disabled: ☐

Ejecting a CD

1. Press the ⏏ button ⓮.
2. The CD player menu is displayed.
3. Select the desired CD compartment.
4. The CD player will eject the CD.
5. Remove the CD.

Note If the CD is not removed, after a short time it is automatically drawn back into the player.



CD OPERATION cont.

Removing all CDs

It is possible to remove all CDs from the player at the same time.

1. Press and hold the ⏏ button ⓮ for a relatively long time.
2. An overlay menu will be displayed with the message, “Eject all CDs”.
3. Confirm with “OK” by pressing the multifunction button ❺.
4. The CDs will be ejected one after the other.

Note

- If a CD is not removed, the CD is automatically re inserted and the ejection process is terminated.
- If the CD magazine is empty, the message “Magazine empty” will be displayed for 5 seconds.
- If a CD is ejected or inserted, the last radio station selected will automatically be played.

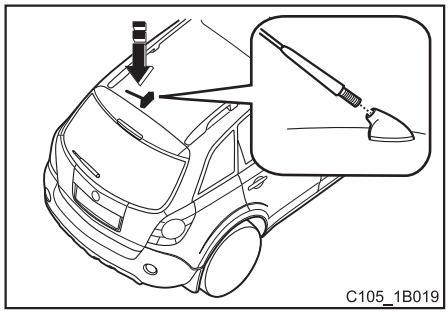
ANTENNA INFORMATION

Antenna

The AM/FM antenna is located in the centre of the roof above the tailgate opening.

Avoid damage to the antenna when loading the roof rails or when washing the vehicle as this can cause interference with radio reception.

To remove the roof antenna (located at the back of the roof), rotate it anticlockwise. To install the roof antenna, rotate it clockwise.



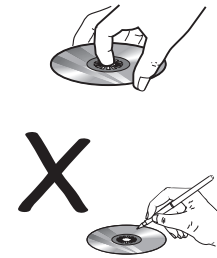
WARNING
Driving through an automatic car wash with the antenna installed may result in damage to the antenna or the roof panel. Be sure to remove the antenna before entering an automatic car wash.

NOTES ON COMPACT DISCS

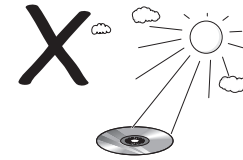
Care of your CD

- Handle the CD by its edge and avoid touching the playing surface.

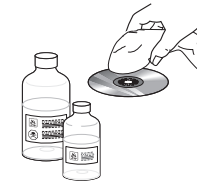
  Directly after removal from the CD/MP3 slot, place the CD into the CD cover to prevent damage or soiling.
- Do not stick paper or tape or write on either surface.



- Do not expose the CD to direct sunlight or a heat source for example, a hot air duct.



- Dirt and liquids on CDs may soil the audio systems CD player lens resulting in malfunction.
- Before inserting a CD into the audio system, clean the CD with a cleaning cloth. Wipe the CD from the centre outwards, rather than in a circular motion. See illustrations.
- Do not use solvents such as petrol, thinners etc. Use commercially available CD cleaners.



GLOSSARY OF TERMS

Automatic Station Search
Station search by tuner. The tuner will search until a station is found.

Autostore (AS)
The best receivable stations in the FM and AM wave bands can automatically be stored. The stations are stored in a separate AS memory.

If you leave the reception area of the stored stations, new stations can be stored.

Balance
Shifting of volume to left or right loud speaker.

Bass
Low frequency sound.

Treble
High frequency sound.

CD Text
Information stored on a audio CD title which include the following data:

- Track name,
- Artist's name,
- CD title.

Fader
Front/rear volume distribution.

MP3
CD audio data compression method developed by Fraunhofer Institute. Compression allows reduction of the amount of data to around 10 % of the original volume without audible losses in sound quality (at a bit rate of 128 kbit/s). If lower bit rates are used to convert the CD audio data into MP3 then the files become even smaller but sound quality is reduced.

WMA
Windows Media Audio, a data compression method used to store audio data.

Random Play
The tracks on a CD are played back in random order.

NOTES

CHAPTER 2

Locks

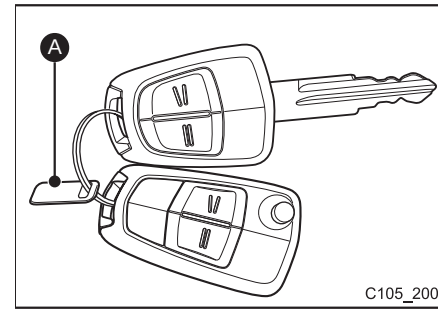
Page

Keys....2-2
Ignition switch....2-6
Door locks....2-7
Rear tailgate lock....2-9
Bonnet lock....2-10
Security....2-11

*The asterisk signifies equipment options not in all vehicles, model variants, engine options, optional equipment and Genuine Holden Accessories (and Parts).

KEYS

KEY



This key operates all locks and the ignition. The following buttons appear on the key.

= Lock

= Unlock

The code number for your keys is stamped on the key plate Ⓐ, which is attached to the key ring. Record the key number, remove the key plate and keep the number and the key plate in a safe place (not in the vehicle).

To protect your vehicle from theft, an electronic immobiliser system has been installed in your vehicle. The engine is automatically immobilised when the key has been turned to the **LOCK** position then removed from the ignition switch.

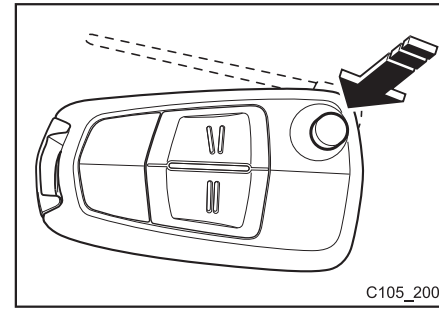
Only keys with the correct electronic code can be used to start the vehicle.

Note Even if a key has the same profile it will not start the engine if the electronic code is incorrect.

In the event of the original keys being lost, any additional or replacement keys must be purchased from and programmed by a Holden Dealer, using your key code number.

Folding the key

Press the button to extend or retract the key blade. When the blade retracts it clicks into place within the plastic key housing.



KEYS cont.

Keyless entry using remote control

The range of the remote control unit should be approximately 6 metres, this may be reduced due to shadowing and reflection of the radio waves. To operate the remote control unit, direct it at the vehicle and press the required button.

For your convenience, we recommend operating the central locking system using the remote control unit.

Treat the remote control unit with care; it should be protected against moisture and should not be operated unnecessarily.

To lock the vehicle:

Press the button on the remote control unit. The vehicle hazard lamps flash once, all doors and the tailgate lock.

To deadlock the vehicle:

Press the button a second time. The vehicle hazard lamps flash once and the doors deadlock.

To unlock the vehicle:

Press the button on the remote control unit. The vehicle hazard lamps flash twice, all doors unlock and the instrument panel lamps illuminate for approximately 30 seconds.

Note Deadlocking will lock all doors and prevent them from being unlocked from inside the vehicle.

Note If the remote control unit cannot unlock the central locking system, this may be due to the following reasons:

- The voltage of the remote control battery is too low. Change the battery in the remote control unit.
- You may be too far from your vehicle.
- Interference from high-power radio waves from other sources.

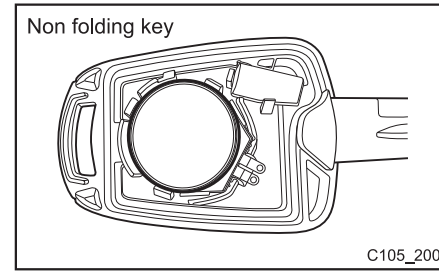
If the doors have been unlocked using the remote control unit and the doors have not been opened within 30 seconds; the doors will automatically relock.

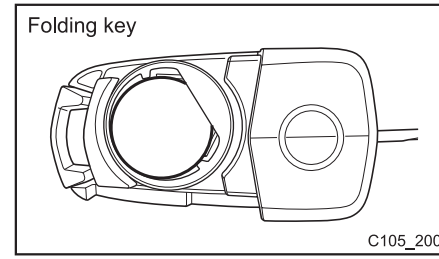
KEYS cont.

Replacing the battery in the remote control transmitter

Replace the battery as soon as the range of the remote control consistently starts to reduce, as follows:

1. **Non folding key**: insert a small screwdriver in the notch on the cover and prise it open.
   Folding key: open the cover by hand.
2. Remove the used battery.
3. **Non folding key**: install the battery making sure the positive (+) side of the battery is facing downward.
   Folding key: install the battery making sure the positive (+) side of the battery is facing upward.
   Refer to *Specifications* in chapter 8 for correct battery type.
4. Close the cover so that it engages audibly.
5. Test the operation of the transmitter with your vehicle.





Note

- Avoid touching the flat surfaces of the battery with your bare fingers. Handling will shorten battery life.
- Avoid touching the circuit board and other components inside the remote control.

Matching the remote control transmitter

Matching transmitters to your vehicle may be necessary if you lose or replace a transmitter. Even if only one transmitter is being replaced, you must rematch all of your transmitters at the same time. Up to four transmitters can be matched to your vehicle. Contact your Holden Dealer to purchase a new transmitter and to have transmitters matched to your vehicle.

WARNING
The remote control unit is built up of precision electronic parts. To help avoid transmitter trouble:

- Do not leave the remote control unit in direct sunlight or on the instrument panel.
- Do not treat the remote control unit carelessly.
- Do not allow the remote control unit to get wet.

Note If the system is overloaded as a result of repeated operation at short intervals, the power supply may cut off for a short amount of time.

KEYS cont.

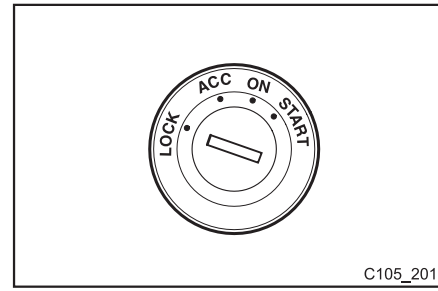
NOTES ABOUT THE KEYS

- When a button on the key is pressed, it sends a signal to the vehicle.
- The remote control in the key has a range of approximately 6 metres. The range is dependent on the charge state of the transmitter battery and on ambient conditions of the vehicle's location, the key's location and the area between them. If the key buttons do not work, change your position to the vehicle and try again. Normally, getting closer to the vehicle will solve the problem. Certain conditions also enable ranges of more than 6 metres. Take care that no button is pressed unintentionally, especially when the vehicle is out of sight.
- Tinting the vehicle windows reduces the range of the key if the tinting material has a metallic film.
- The key buttons may not work if the vehicle is parked near strong radio activity, such as under TV towers (most likely in high lookout car parks).
- At times you may notice a decrease in range. This is normal for any remote keyless entry system. If the transmitter does not work or if you have to stand closer to your vehicle, try this:
  - Check the distance. You may be too far from your vehicle. You may need to stand closer during rainy or snowy weather.
  - Check the location. Other vehicles or objects may be blocking the signal. Take a few steps to the left or right, hold the transmitter higher, and try again.
  - If you are still having trouble, contact your Holden Dealer.
- When, for any reason, pressing the key buttons does not work, the doors can be locked (anticlockwise) and unlocked (clockwise) by turning the key in the driver's door lock.
- If the vehicle is delivered with only one key, notify your Holden Dealer immediately.
- Always store spare keys in a safe, dry place.
- Treat the remote control unit with care. It should be protected against moisture and should not be operated unnecessarily.
- The buttons on the remote control do not operate while the key is in the ignition.

IGNITION SWITCH

WARNING

- Do not switch the engine off while the vehicle is moving as there will not be any power assist for brakes or steering.
- Never remove the key while the vehicle is moving, as this will lock the steering.



LOCK

This is the normal parking position for the ignition switch; the accessories and engine are off.

The ignition key can only be removed from the ignition switch when it is in this position.

When the key is removed, the ignition and steering are locked. To release the steering lock, insert the key into the switch and turn the key to any other position.

If you have trouble turning the ignition key to unlock the steering, turn the steering wheel slightly to the right or left while turning the key.

ACC

When the ignition key is in this position, the engine is off, but accessories such as the audio system can still operate.

To avoid flattening the battery, avoid excessive use of accessories when the engine is not running.

ON

In this position, the engine is ready to start (or is already started) and all electrical systems are active.

Note

- The warning lamps, which are designed to illuminate at the ignition ON position, indicate the systems are working. Refer to *Warning/reminder indications* in chapter 1A.
- Do not leave the switch in the ON position for a prolonged period, unless the engine is running, otherwise the vehicle's battery will discharge.

START

This is the position for starting the engine.

Turn the ignition key to the **START** position until the engine starts. The key automatically returns to the **ON** position when released.

DOOR LOCKS

Remote locking

When the vehicle is unlocked, close all doors and then press the button on the key to lock all doors. The vehicle hazard lamps will flash once and the doors lock.

Note The fuel filler door will lock when the doors are locked.

Deadlocking

Press the button a second time within 3 seconds of locking. The vehicle hazard lamps will flash once and the doors deadlock.

Note Deadlocking will lock all doors and prevent them from being unlocked from inside the vehicle.

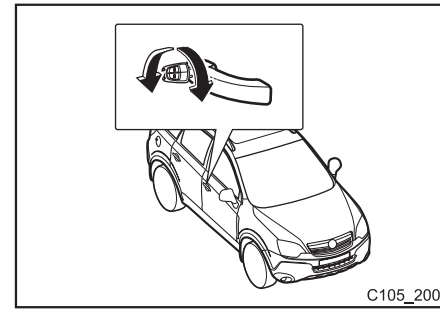
Manual locking system

To lock using key:

Insert the key in the driver's door lock. Turn the key toward the rear of the vehicle. Allow the key to return to its vertical position for removal.

To unlock using key:

Insert the key in the driver's door lock. Turn the key toward the front of the vehicle. Allow the key to return to its vertical position for removal.


C105_2005

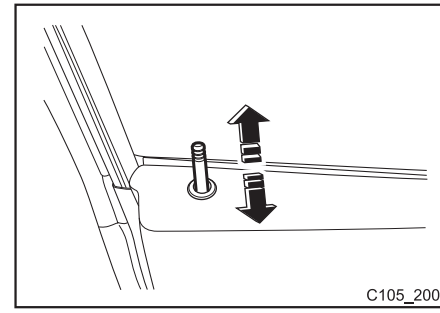
Locking from the inside

To lock:

To lock any door from the inside, push down on the door lock button.

To unlock:

To unlock any door from the inside, pull up on the door lock button.

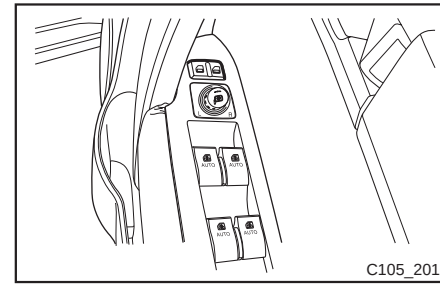

C105_2007

WARNING
Before driving, ensure the doors are closed and locked, especially when young children are in the vehicle.

Door lock switches

The doors can be locked or unlocked with the door lock switches, located on the driver's door trim pad.

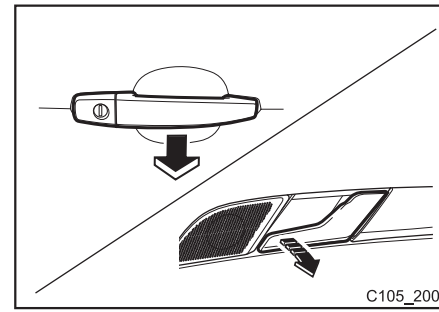
Press the left side of the switch to lock the doors, press the right side of the switch to unlock the doors.


C105_2016

DOOR LOCKS cont.

Opening doors

The driver's door and the front passenger's door can be opened by pulling the door handle from the inside, even if the doors are locked with the door lock button.



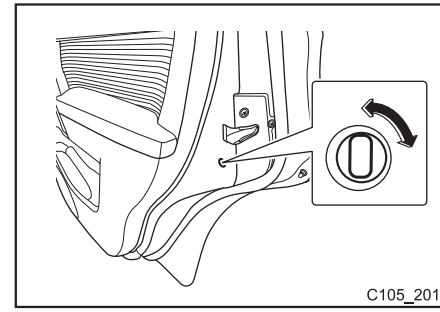
Child safety rear door lock

Child safety locks helps prevent the rear doors being accidentally opened from the inside by small children in the vehicle.

The locks are provided on the rear edge of both rear doors. They are accessible when the door is open.

To activate the child safety locks:

1. Open the rear door you intend to lock.
2. Locate the child safety lock on the door edge.
3. Use the ignition key to turn the lock clockwise away from the vertical position.



Note To open a rear door when the child safety door lock is activated, unlock the door and open from the outside.

WARNING
For safety, always check that the lock is operating correctly (after setting) by trying to open the door from inside the vehicle.

To deactivate the child safety door locks:

1. Turn the lock anticlockwise to the vertical position to disengage the child safety lock.

REAR TAILGATE LOCK

WARNING

It can be very dangerous to drive with the tailgate open. Carbon monoxide (CO) gas can enter into the vehicle. You can not see or smell CO. It can cause unconsciousness and even death.

If you must drive with the tailgate open, make sure all other windows are closed and switch the fan on to the highest speed using any setting that brings in outside air. Doing this will force outside air into the vehicle.

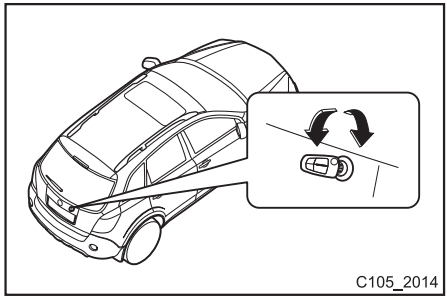
To lock:

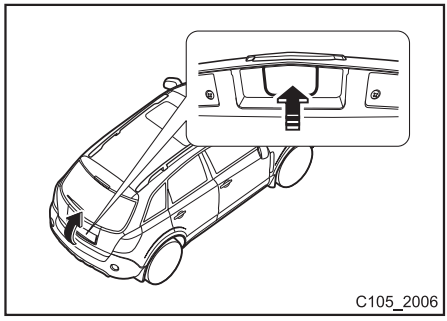
To close the tailgate, push it down until it latches securely. From the outside, the tailgate can be locked with the key.

To unlock:

To open the tailgate, unlock by pressing the door lock switch on the driver's door trim.

Push the button above the number plate and lift the tailgate.


C105_2014

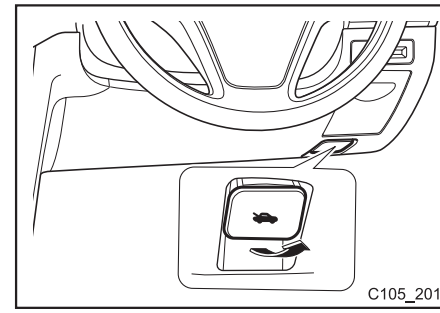

C105_2006

BONNET LOCK

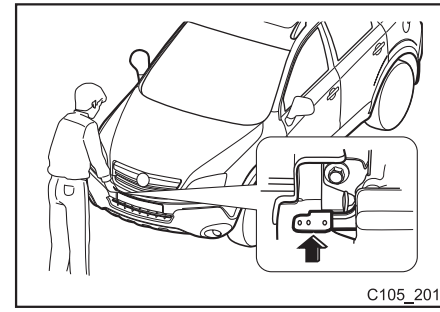
OPENING THE BONNET

To open the bonnet, pull the release handle located at the lower right side of the dashboard.

To release the bonnet, pull the lever toward you. The bonnet is prevented from opening fully by a safety catch.



To open the bonnet completely, reach in under the centre of the bonnet opening and move the safety catch upward. Raise the bonnet gently. Two gas struts will hold the bonnet open.



CLOSING THE BONNET

WARNING
To avoid injury and/or damage to the vehicle, check each time, before the bonnet is closed, that the contact area is unobstructed.

To close, lower the bonnet gradually until it is about 30 cm from closed, and then push it down to close fully.

Pull on the front edge of the bonnet to ensure it is latched securely before driving the vehicle.

WARNING
If while driving you notice that the bonnet has not been properly closed, pull the vehicle over to the side of the road at the earliest possible moment and close the bonnet correctly.

SECURITY

Immobiliser

This vehicle is fitted with an immobiliser. It prevents unauthorised engine starting.

The ignition key will be recognised by the vehicle when the key is inserted into the ignition switch allowing the engine to be started.

Note

- Avoid large bundles of keys being attached to the ignition key.
- Avoid having keys from other vehicles attached to the ignition key.
- Replacement keys can only be programmed by your Holden Dealer.
- If the vehicle's key is lost, inform your Holden Dealer immediately so the car can be reprogrammed to no longer recognise the lost key as valid.
- A maximum of 4 keys can be programmed to suit one vehicle.
- Do not attempt to start the vehicle with a non-approved key.
- If the immobiliser system has developed a fault or an incorrectly programmed key is used in an attempt to start the vehicle, the security warning indicator lamp will illuminate.

NOTES

CHAPTER 3

Know your vehicle

Page

Seats 3-2
Restraints 3-6
Supplemental restraint system 3-13
Power windows.....3-16
Mirrors 3-17
Interior lamps.....3-19
Assist grips 3-21
Storage compartments 3-22
Power sockets 3-26

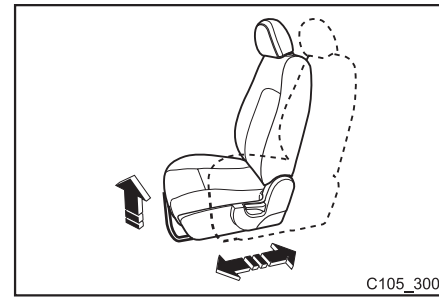
*The asterisk signifies equipment options not in all vehicles, model variants, engine options, optional equipment and Genuine Holden Accessories (and Parts).

SEATS

FRONT SEATS

Passenger's seat slide adjustment

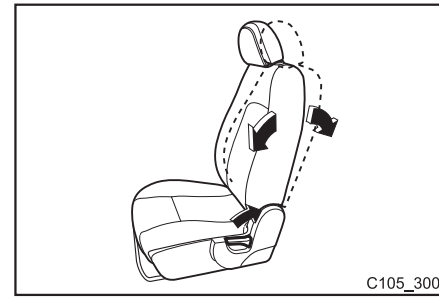
Lift the lever to unlatch the front seat. Slide the seat as required. Release the lever. Try to move the seat back and forth to check if the catch is fully engaged.



WARNING
Do not adjust the driver's seat when the vehicle is moving, as the seat could move suddenly, causing the driver to lose control.

Passenger's seat reclining adjustment

To tilt the seat forward or backward, lift the lever on the outside of the seat cushion until the seatback is adjusted to the desired position.



WARNING
To avoid reducing the effectiveness of seatbelts, seat backs should only be upright or at most semi-reclined when the vehicle is moving.

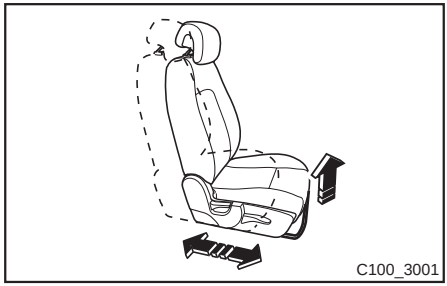
SEATS cont.

MANUAL FRONT SEATS

Seat slide adjustment

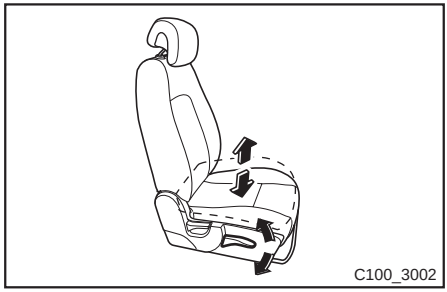
Lift the lever to unlatch the front seat. Slide the seat as required. Release the lever.

Note Try to move the seat back and forth to check that the latch is fully engaged.


C100_3001

Driver's seat height adjustment

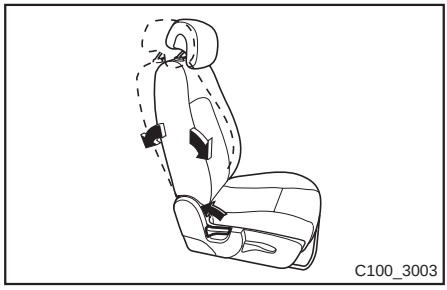
To raise the driver's seat cushion, move the lever upward repeatedly until the seat is at the desired height. To lower the seat cushion, move the lever downward repeatedly until the seat is at the desired height.


C100_3002

Seat reclining adjustment

To tilt the seat forward or backward, lift the lever on the outside of the seat cushion until the seatback is adjusted to the desired position.

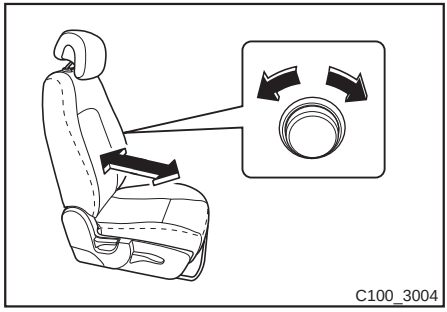
WARNING
To avoid reducing the effectiveness of seatbelts, seat backs should only be upright or at most semi-reclined when the vehicle is moving.


C100_3003

Driver's seat lumbar adjustment

To increase or decrease the driver's seat lumbar support, turn the knob on the inside of the seatback clockwise or anticlockwise until the lumbar is adjusted to the desired position.

WARNING
Do not adjust the driver's seat when the vehicle is moving, as the seat could move suddenly, causing the driver to lose control.


C100_3004

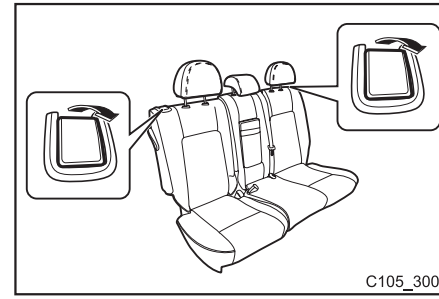
SEATS cont.

REAR SEATS

Seat reclining

The rear seats can be partially reclined.

To tilt the seatbacks, lift the lever on top of the rear seatback until the seatback is adjusted to the desired position.



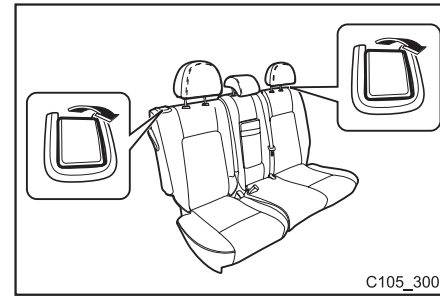
Seat folding

The seatbacks can be folded down for additional cargo space. The seatbacks can be folded down individually.Ensure all three seat belts are unbuckled and the front seatbacks are not reclined.

1. Push the head restraints fully down.
2. Lift the lever on top of the rear seatback and fold the seatback forward.

To return the rear seats to their original position, use the following procedure:

1. Guide the rear seat cushion back to the original position.
2. Ensure it is securely latched by pulling it back and forth.



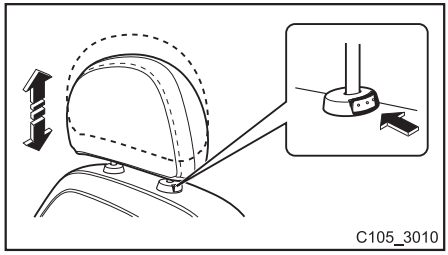
SEATS cont.

HEAD RESTRAINTS

Adjusting the height

To adjust the height of the head restraint, pull up or push down while pressing the lock button in.

Note The upper edge of the head restraint should be approximately at eye level, and not at neck level.



WARNING

- Do not drive the vehicle with the head restraints removed, since it would increase the risk of a neck injury in the event of an accident.
- Do not attempt to adjust the driver's head restraint while the vehicle is in motion. This could cause a loss of control of the vehicle.
- The head restraint safety feature is not intended as a headrest. It is solely for the reduction of whiplash neck movement in an accident involving your vehicle.

RESTRAINTS

SEAT BELTS

WARNING

- Seat belts are designed to bear upon the bony structure of the body, and should be worn low across the front of the pelvis, or the pelvis, chest and shoulders, as applicable; wearing the lap section of the belt across the abdominal area must be avoided.
- Seat belts should be adjusted as firmly as possible, consistent with comfort, to provide the protection for which they have been designed. A slack belt will greatly reduce the protection afforded to the wearer.
- Care should be taken to avoid contamination of the webbing with polishes, oil and chemicals, and particularly battery acid. Cleaning may safely be carried out using mild soap and water. The belt should be replaced if webbing becomes frayed, contaminated or damaged.
- It is essential to replace the entire assembly after it has been worn in a severe impact even if damage to the assembly is not obvious.
- Seat belts should not be worn with straps twisted.
- Each seat belt assembly must only be used by one occupant; it is dangerous to put a belt around a child being carried on the occupant's lap.
- No modifications or additions should be made by the user which will either prevent the seat belt adjusting devices from operating to remove slack, or prevent the seat belt assembly from being adjusted to remove slack.

Front seat belts

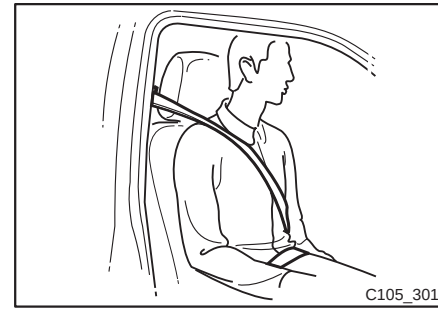
To fasten the retractor seat belt, pull the metal tongue across your body and clip it into the buckle. When the metal tongue has locked safely into place you will hear a click. After fastening, settle the seat belt by running your hand under the seat belt starting at the hip, move your hand across to the buckle then up under the sash. Any extra seat belt length will retract automatically.

The lap section should be worn as low as possible across your hips, not on your waist. Ensure the sash and lap sections of the seat belt are free from twists and fit firmly.

The emergency-locking retractor allows you to move freely while the vehicle is travelling normally. The retractor locks the seat belt immediately on sudden braking, impact with a solid object or any quick movement by the wearer.

To release the seat belt, press the release button on the buckle and allow the seat belt to retract. Ensure that it fully retracts without twisting or turning.

C105_3011


C105_3012

RESTRAINTS cont.

Seat belt pretensioners

The front seat belt system incorporates seat belt pretensioners. Seat belt pretensioners are part of the Supplemental Restraint System (SRS) and operate in conjunction with airbags. In the event of a severe frontal collision the belt buckles are pulled downward, tightening both the diagonal and lap sections of the seat belt.

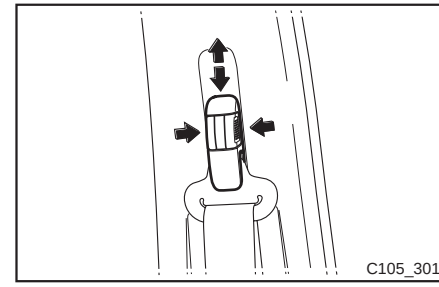
If the belt pretensioners have been activated, the SRS warning lamp on the instrument panel will not go out after the usual few seconds. This is designed to remind you the pretensioner system has been used and therefore needs to be replaced by your Holden Dealer. The seat belts would remain operational, apart from this safety feature.

If the SRS lamp comes on at any other time, or if the SRS warning lamp illuminates on the instrument panel, contact your Holden Dealer immediately to have the system checked. Refer to *Warning/reminder indications* in chapter 1A for further information.

The driver and all passengers should be properly restrained at all times with the seat belts provided in the vehicle. Failure to do so could increase the risk of injury and/or the severity of injury in accidents.

Front seat belt height adjustment

WARNING
Do not attempt to adjust the seat belt height while driving, because it could cause loss of control of the vehicle.



The seat belt is anchored to the vehicle near your shoulder, the position of the front seat belt anchor can be adjusted to accommodate the height of the wearer.

1. Squeeze the release buttons to move the adjuster up or down to the desired height.
2. Lock the safety belt anchor in position.
3. To make sure it is locked in place, try to move the height adjuster without pressing the release button.

Adjust the height so the seat belt passes over the wearer's shoulder and rests against the shoulder. It must not pass over the neck or upper arm. Short people should select a low seat belt guide position and tall people a higher one.

Rear seat belts

To put on the seat belt, pull the shoulder portion of the seat belt down until the metal tongue reaches the buckle. Press the metal tongue into the buckle until it clicks into position.

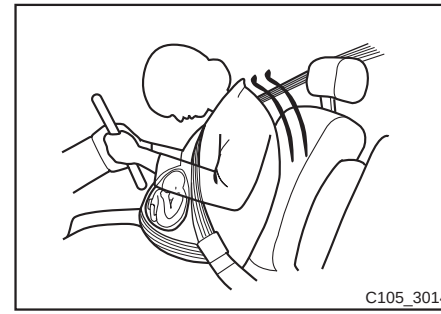
To release the seat belt, press the release button on the buckle.

WARNING
The tongue must engage and lock inside the buckle for the seat belt to function properly.

RESTRAINTS cont.

Seat belt use during pregnancy

Seat belts work for everyone, including pregnant women. Like all occupants, they are more likely to be seriously injured if they do not wear seat belts. A pregnant woman should wear a lap/shoulder belt, and the lap portion should be worn as low as possible throughout the pregnancy.



Maintenance of seat belts

Check the seat belts regularly. Replace the seat belts if they become frayed or damaged. The buckle and retractors mechanism operation should also be checked. Your Holden Dealer will regularly do these things as part of the scheduled maintenance plan. Refer to the Service/warranty booklet.

The seat belts must be replaced if they have been in use during a severe impact, even if there is no obvious damage.

Clean the seat belts only with a solution of mild soap and lukewarm water. Never use bleach.

RESTRAINTS cont.

WARNING

- This manual provides you with general information concerning child restraints only.
- The driver is required by law to ensure that passengers are suitably restrained. In most States and Territories of Australia and New Zealand, specific laws may exist which require children to be seated in approved child restraints.
- Holden strongly recommends that you refer to your specific State or Territory regulations to determine which child restraint is suitable for your child.

WARNING AVERTISSEMENT ADVERTENCIA
AIR BAG
DO NOT place rear-facing child seat on this seat with airbag
DEATH OR SERIOUS INJURY can occur.
Ne pas placer de siège enfant "dos à la route"sur le siège passager avant équipé d'un airbag.
Risque sérieux de MORT OU DE BLESSURES GRAVES.
NO DEBE colocar de espaldas asientos para bebes en esta silla equipada con bolsa de aire
MUERTE O TRAUMA SERIO pueden ocurrir.
C105_3016

WARNING – EXTREME HAZARD

- Do not use a rearward facing child restraint on a seat protected by an airbag in front of it.

  The child could be seriously injured if the airbag inflates, as the child's head would be very close to the inflating airbag.
- Never install a child restraint in the front seat of a vehicle fitted with Side Impact Air Bags (SIAB). Remember that it is safer for children to be seated in the rear seats.
- If a child can not see out of the window, do not raise the child by means of an ordinary cushion. The cushion would not stay in place in the event of a crash, and the child would slip out of the straps and become entangled. Ensure the seat belt fits firmly around the child restraint.
- Children should be restrained at all times when travelling in a vehicle.

RESTRAINTS cont.

CHILD RESTRAINTS

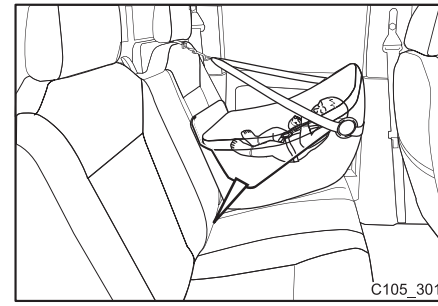
Children should be restrained at all times and fitted with a child restraint appropriate to their size when travelling in a vehicle. The following outlines guidelines about selecting the appropriate restraint.

WARNING
Always follow the child restraint manufacturer's fitting instructions when installing a child restraint into the vehicle.

Infants

Recommended weight and height for rearward facing infant capsule	
Weight	Height
Up to 9 kg*	Up to 70 cm*

Designed so that in the event of a collision, impact forces will be evenly spread over the baby's back, with minimal jarring to the vulnerable head and neck area.

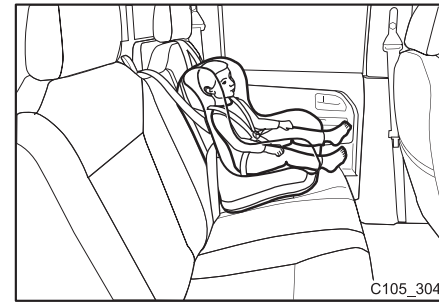


Rearward facing infant capsule

Young children

Recommended weight for forward facing child seat
Weight
8 to 18 kg*

For use when the child is able to sit and easily hold his or her head upright. It is also possible to purchase convertible seats which can be used as a rearward facing infant restraint or converted to a forward facing child seat.



Forward facing child seat

**According to AS/NZ 1754:2004*

RESTRAINTS cont.

Recommended weight for booster seat with lap/sash seat belt
Weight
14 to 26 kg*

When children outgrow a typical forward-facing child seat but they are still too small for lap/sash seat belts. A booster seat raises the child so the knees bend comfortably, the lap/sash seat belt is correctly positioned and the child can see out the window. A rigid booster seat with a back, side wings and sash guide gives the best protection.

Booster seat with lap/sash seat belt

Older children

A child should use a normal lap/sash seat belt only when:

- he/she can sit against the back of the rear seat with knees bent comfortably at the edge of the seat,
- lap belt rests low and snug across the hips – not across the stomach,
- sash belt is centred on shoulder and chest,
- he/she is able to stay seated like this for the entire trip.

Adult lap/sash seat belt

**According to AS/NZ 1754:2004*

RESTRAINTS cont.

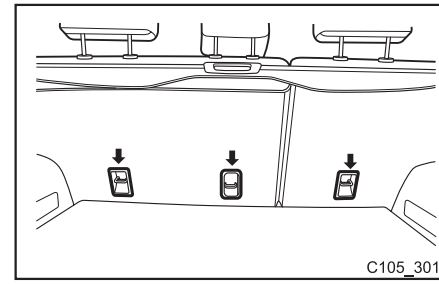
WARNING

- Child restraint anchorages are designed to withstand only those loads imposed by correctly fitted child restraints. Under no circumstances are they to be used for adult seat belts, harnesses or for attaching other items or equipment to the vehicle.
- Only child restraints that have clips to attach to the vehicle's anchorage fitting (as shown in the following illustrations) are to be used. Earlier types of child restraints may not attach securely to this type of anchor.
- Only Standards Australia approved child restraints and harnesses should be used. You should only purchase a child restraint which carries the appropriate Standards Australia sticker of approval.
- Where legally allowable, you may install a forward-facing child restraint in the front passenger's seat (without side impact airbags), but always move this seat as far back as it will go.
- Remember, it is safer for children to be seated in the rear seats.

Anchor points

The tether anchor brackets are installed on the rear of the back seats as shown.

Note The anchor brackets are installed in three positions.

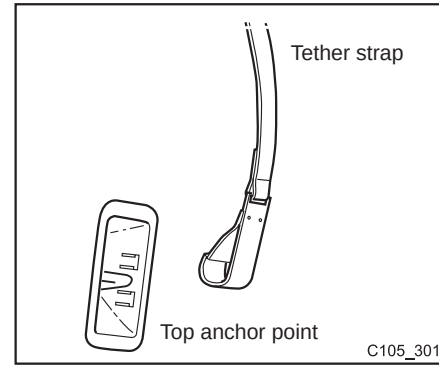


Attaching the child restraint

WARNING
Always follow the child restraint manufacturers fitting instructions when installing a child restraint.

Place the child restraint on the rear seat and attach it to the anchors following the instructions supplied with the child restraint.

Attach the clip on the child restraint tether strap to the tether anchor, ensuring there are no twists in the tether strap.



Note

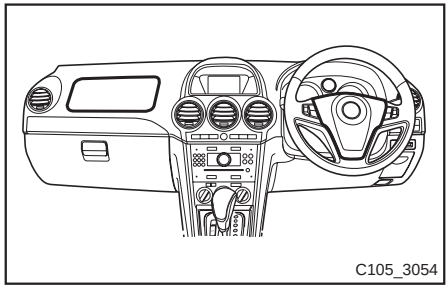
- If the position you are using has an adjustable head restraint and you are using a dual tether, route the tether around either side of the head restraint.
- If you are using a single tether, raise the head restraint and route the tether under the head restraint between the two mounting posts.

Tighten the tether straps according to the instructions supplied with the child restraint.

SUPPLEMENTAL RESTRAINT SYSTEM

Front airbags

The driver's airbag is stored inside the steering wheel. AIRBAG is stamped on the steering wheel and a label is attached under the driver's side sun visor.


C105_3054

WARNING

- The horn pad must not be covered with adhesive or any other material.
- The driver should adjust the seat as far rearward as possible while still maintaining control of the vehicle.

The front passenger's airbag is stored in the dashboard. The wording AIRBAG above the glovebox and a label attached under the sun visor indicates that a passenger airbag is fitted.

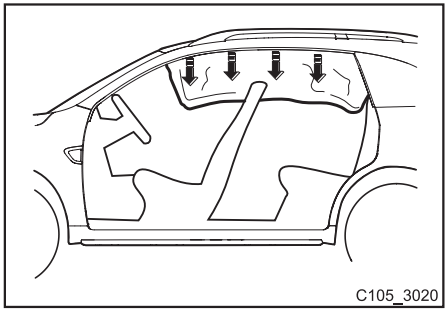
WARNING

- Do not place any objects on or over the dashboard or between an airbag and yourself.
- Do not hang anything from the sun visor or mirror.
- Passengers must not rest their feet on the dashboard.

Front airbags will inflate in certain severe frontal or near frontal impacts. Front airbags are not designed to inflate if the vehicle is struck from the side, rear or in rollovers. Always wear a seat belt.

Side curtain airbag operation

Curtain airbags are stored in the roof area, just above the front and rear doors. The curtain airbag only deploys on the side of the vehicle that is struck.


C105_3020

SUPPLEMENTAL RESTRAINT SYSTEM cont.

Note

- A curtain airbag will deploy and offer protection in most, but not all, severe side impacts. Because of the limited time available to detect some side impacts, it is not possible to deploy a curtain airbag in all serious accidents (for example, some pole impacts).
- A curtain airbag will inflate in certain severe side impacts. Curtain airbags are not designed to inflate if the vehicle is struck from the front, rear or in rollovers. Always wear a seat belt.
- If the vehicle is fitted with curtain airbags there will be labels on both door lock pillars.

WARNING

- Do not position your body or any object (including pillows) in the area in which the airbag inflates.
- There must be no objects in the area in which the airbag inflates.
- Use the hooks above the doors only to hang up light articles of clothing.
- Do not place any objects in the pockets of the hanging items.
- Do not hold onto the assist grips (above the doors) while seated in the vehicle.
- Always wear your seat belt.
- Do not lean on, or sleep against the front or rear doors. Always sit centrally in the seat.
- Airbags are part of the 'Supplemental Restraint System' (SRS) as they assist, but do not replace seat belts. Airbags do not deploy in every accident. Various factors dictate whether they deploy including speed, angle of collision and object hit. Airbags are not designed to inflate in all collisions. Seat belts must be worn by all passengers whenever the vehicle is moving.
- Airbags inflate with great force, if you are too close to an inflating airbag it may cause injury. Seat belts help keep you in position for airbag inflation in the event of a collision.

The system should also be inspected by a Holden Dealer if:

- The steering wheel or dashboard area is scratched, cracked or damaged;
- If curtain airbags are fitted and the head lining side panels are damaged.

Note Extensive design and testing has gone into the airbag system. It should however, be treated with respect. Any careless or unskilled interference with the system could lead to its failure or to accidental deployment. It is recommended that any work to the electrical system, steering column, dashboard area, steering wheel or airbag system be carried out by a Holden Dealer.

SUPPLEMENTAL RESTRAINT SYSTEM cont.

Roo/nudge bar

If a roo/nudge bar is to be fitted, it is critical the Holden approved roo/nudge bar be used.

Refer to *Add on equipment* in chapter 4 for further information.

Passenger airbag and child restraints

WARNING – EXTREME HAZARD

- Do NOT use a rearward facing child restraint on a seat protected by an airbag in front of it.

  The child could be seriously injured if the airbag inflates, as the child's head would be very close to the inflating airbag.
- Remember that it is safer for children to be seated in the rear seats.

WARNING AVERTISSEMENT ADVERTENCIA
AIR BAG
DO NOT place rear-facing child seat on this seat with airbag
DEATH OR SERIOUS INJURY can occur.
Ne pas placer de siège enfant "dos à la route"sur le siège passager avant équipé d'un airbag.
Risque sérieux de MORT OU DE BLESSURES GRAVES.
NO DEBE colocar de espaldas asientos para bebes en esta silla equipada con bolsa de aire
MUERTE O TRAUMA SERIO pueden ocurrir.
C105_3016

Refer to *Child restraints* previously in this chapter for further information about fitting a child restraint.

Do not touch any airbag system components or wires.

The wires can be identified by yellow tape wrapping or yellow tubing and the connectors are also yellow.

Scrapping a vehicle that has an uninflated airbag can be hazardous. Contact your Holden Dealer for assistance.

POWER WINDOWS

The main switches for the power windows are located on the driver's door armrest. The front switches are for the front windows and the rear switches are for the rear windows.

Individual switches are located on the front passenger door and on the rear doors.

The switches for the power windows are operational when the ignition switch is in the **ON** or **ACC** position.

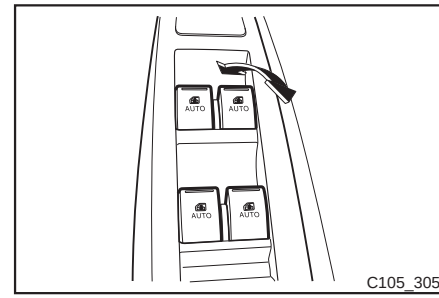
Window auto function

The windows have an auto down two stage function.

To lower the window, press down firmly, then release the switch. The window will automatically open fully. To stop the window while it is opening, press the switch again.

To raise the window, pull up and hold the switch. To stop the window, release the switch.

Note The rear windows do not open fully.



C105_3057

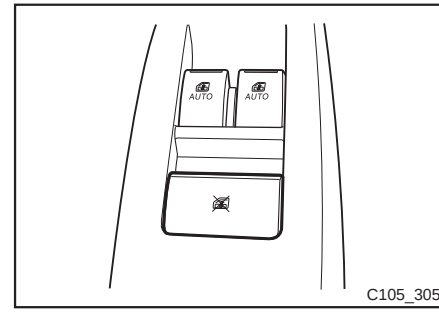
Lock switch

The lock switch for the power windows is located on the driver's door armrest.

When the lock switch is in the ON position the passengers are not able to operate their windows from the window switch fitted to their door.

Pressing it unlocks the passenger's power windows and allows operation from the individual window switches.

Note After the ignition key has been turned to the LOCK position or removed from the ignition switch, the windows can be operated for up to 10 minutes or until the driver's door is opened.



C105_3058

WARNING

- To assure the safety of children and others, ensure that all passengers have their hands, etc. clear of the windows.
- Remove the key when leaving the vehicle, to avoid unintentional window operation by children.
- Ensure the lock switch has been set to the activated position when children are in the vehicle.

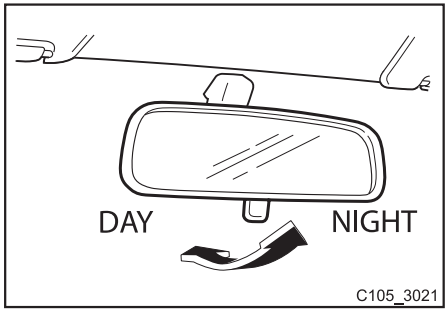
MIRRORS

Interior rear view mirror

To adjust the rear view mirror, move the mirror right or left, up or down to gain the required angle.

The anti-glare lever on the lower edge of the mirror enables the reflector to be used during night driving. This reduces the glare at night, from the following vehicles headlamps.

During normal daylight operation, the lever should be set forward. To reduce glare at night, move the lever toward you.



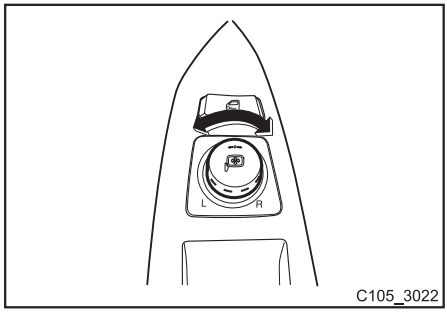
Exterior electric rear view mirrors

The adjustment control for the electric mirrors are located on the driver's side door trim and is operational when the ignition switch is turned to the ON position or ACC (accessories).

Rotate the selector switch to the left to move the left mirror, or to the right to move the right mirror. Rotating the selector switch to the middle will disengage movement.

Push the knob in the direction you want to move the mirror up, down, left or right. It is not advisable to adjust the mirrors while driving.

Note Moving the glass of the mirrors forcibly by hand can damage the electric mirror drive system.

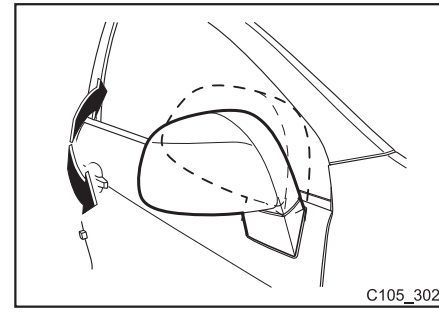


MIRRORS cont.

Folding the exterior mirrors

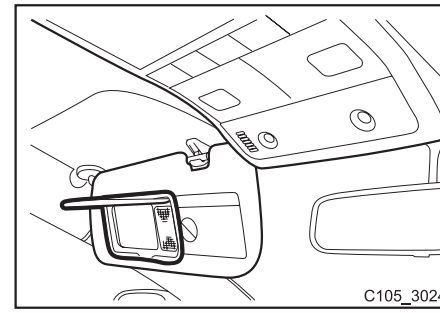
When the vehicle is parked, the exterior mirrors may be folded flat against the sides of the vehicle by pushing the mirrors backward.

WARNING
The exterior mirrors are convex shaped, to provide a wider view. Objects seen in these mirrors are closer than they appear.



Vanity mirrors

The vanity mirrors are located on the rear side of the sun visors, and include a ticket holder. When opening the cover of the vanity mirrors the vanity lamp illuminates.



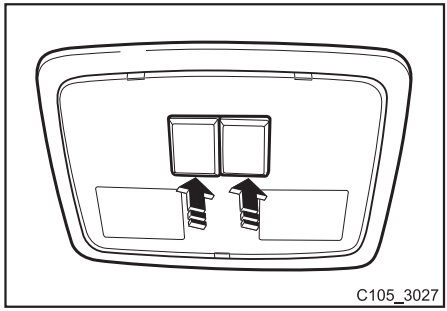
INTERIOR LAMPS

Centre interior lamp

When either interior lamp buttons are pressed, the left-hand or right-hand lamp will illuminate and stay on until the button is pressed again. The centre and rear interior lamps illuminate when a door or the tailgate is opened.

If a door or the tailgate stays open, the interior lamps stay on for approximately 10 minutes.

When all doors and the tailgate are closed, the interior lamps gradually dim and switch off after approximately 10 seconds.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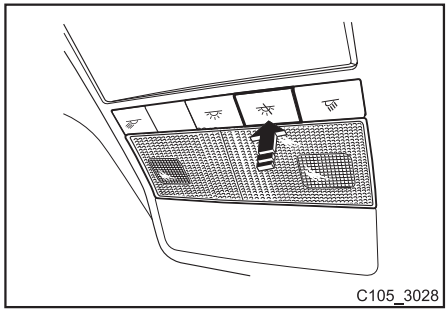
Interior lamps off

The front reading lamps, centre interior lamps, luggage area lamps and ignition switch lamp can be switched off by pressing the button located on the switch panel between the sun visors.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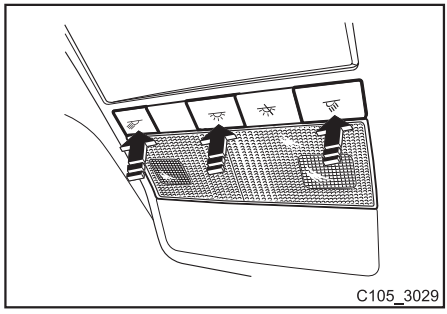
Map lamps

The map lamps are located on the switch panel between the sun visors.

Press one of the two outside buttons (as shown) to illuminate the corresponding front map lamp, press the button again to switch off the map lamp. When you press the centre button both reading lamps and the centre interior lamps will illuminate.

Press the button again to switch off the lamps.

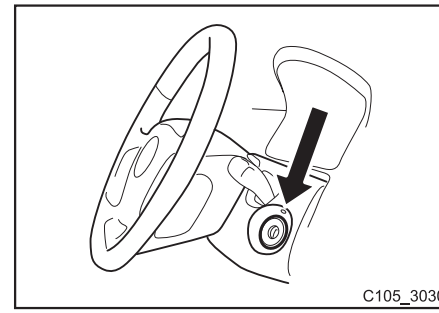

C105_3029

INTERIOR LAMPS cont.

Ignition switch lamp

The ignition switch lamp illuminates when a door is opened. The lamp will stay illuminated for approximately 10 minutes if the door is left open.

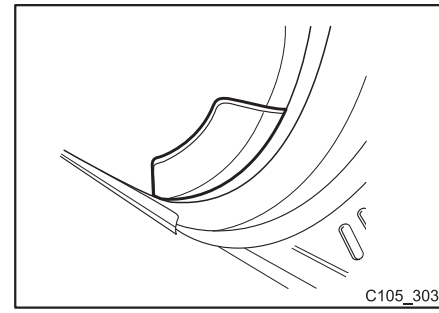
When the door is closed the lamp stays illuminated for approximately 10 seconds, then switches off.



Front door step lamps

The front door step lamps illuminate when a door is opened. If the door is left open the lamps will stay illuminated for approximately 10 minutes.

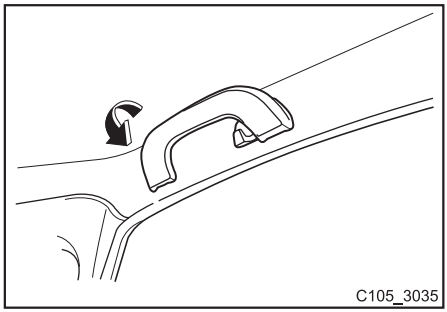
When the front door is closed the lamp stays illuminated for approximately 10 seconds, then switches off.



ASSIST GRIPS

Assist grips are located above the passenger doors to help occupants when getting in and out of the vehicle.

The assist grips above each rear door include a coat hook.

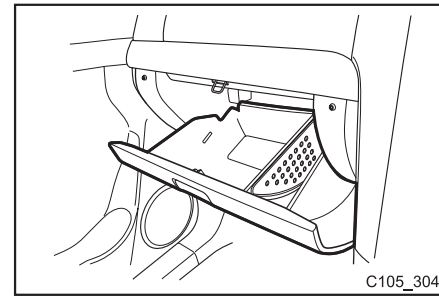


STORAGE COMPARTMENTS

GLOVEBOX

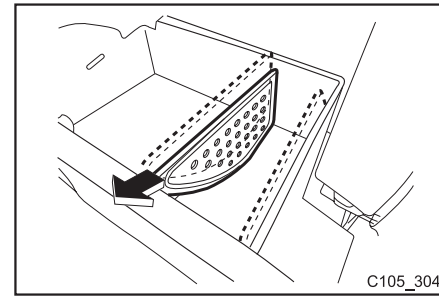
The glovebox is located on the passenger side of the instrument panel.

The glovebox can be opened by pulling the handle. Push the lid shut to close the glovebox.



Inner partition

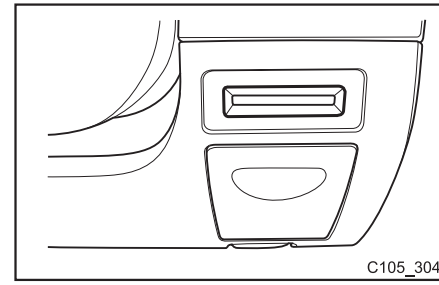
To store larger items, remove the inner partition and store it in the right side groove of the glovebox.



Card holder

The card holder is located on the right-hand side of the instrument panel.

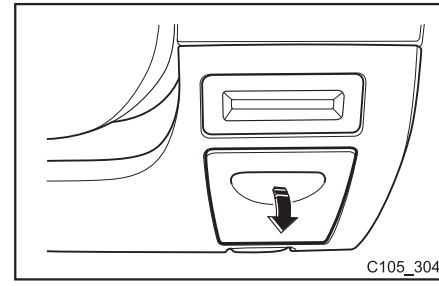
The card holder can be used by inserting a card into the slot.



Coin storage

The coin storage is located on the right-hand side of the instrument panel.

To open the coin storage compartment, pull the handle on the compartment door toward you.

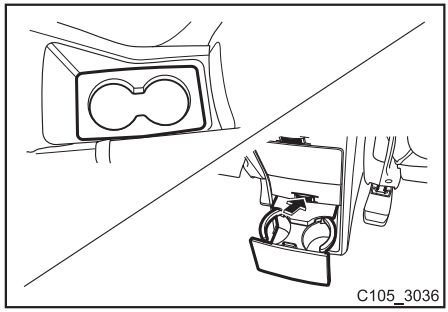


STORAGE COMPARTMENTS cont.

Cup holders

The cup holders are located in the front and rear of the centre console, the front cup holders are easily accessible.

To use the rear cup holder, push the button above the cup holder, it will pop out automatically.

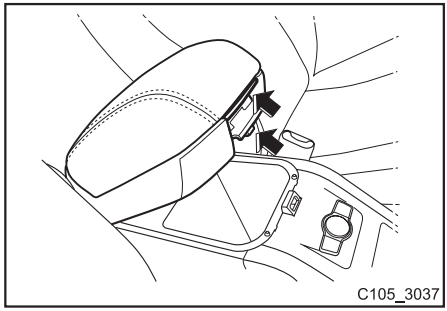


Front centre console

The centre console is located between the two front seats.

To open the centre console lid, pull up on the lower lever and lift the lid upward.

To close the centre console lid, lower the lid and push it down until it latches.



Second tray and sliding armrest

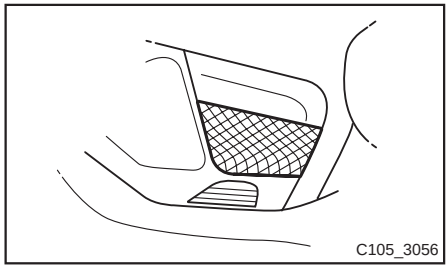
The upper arrow indicates the location of the slide out armrest and second tray latch.

To open the second storage tray, pull upward on the upper lever and lift the lid upward.

To slide the armrest forward, unclip the upper lever and slide the armrest forward to the desired position.

Console net

A console net is located on the front passenger's door pocket, to secure items.

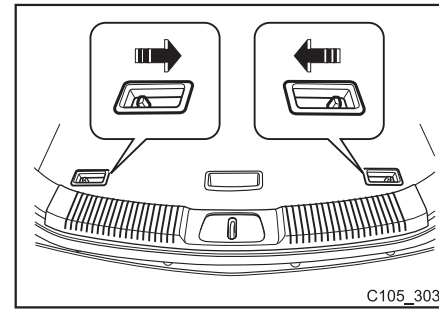


STORAGE COMPARTMENTS cont.

Under floor storage

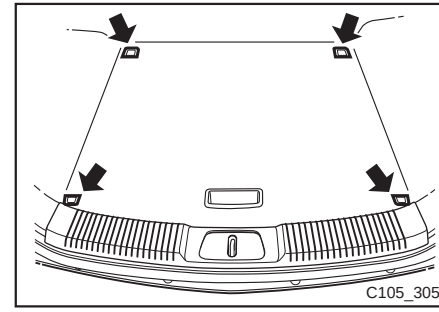
Storage compartments are located under the floor of the rear luggage area.

To gain access to the under floor storage, release the two latches and lift the floor panel upward with the handle.

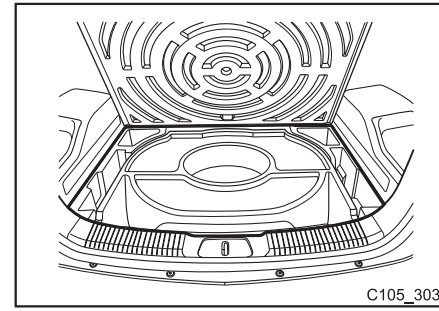


Load restraining hooks

Restraining hooks are located on the luggage compartment floor to enable loads to be secured in position.

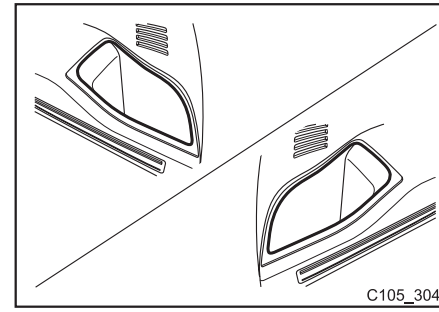


Note Do not allow items in the storage compartment to extend above the top of the storage container, otherwise the storage compartment or the luggage area floor panel may be damaged.



Floor side trays

Floor side trays are located on both sides of the rear luggage area.



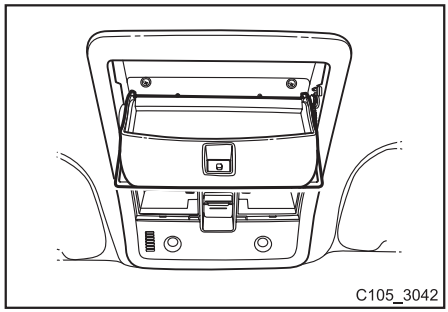
STORAGE COMPARTMENTS cont.

Sunglasses holder

The sunglasses holder is located behind the map lamps.

To open, push on the rear part of the cover.

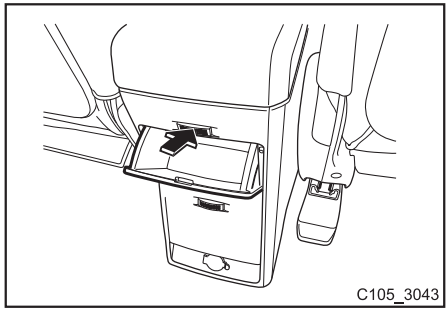
To close, push upward until it latches.



Rear storage compartment

The rear storage compartment is located at the rear of the centre console. To open, press the button above the compartment.

To close, push upward until it latches.



Cargo blind

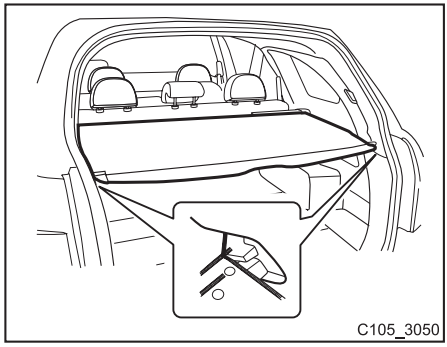
To cover:

Pull the handle toward the rear of the vehicle, latch the locking devise on either side as shown.

To uncover:

Unlatch the blind form the locking devise. The blind will roll up automatically.

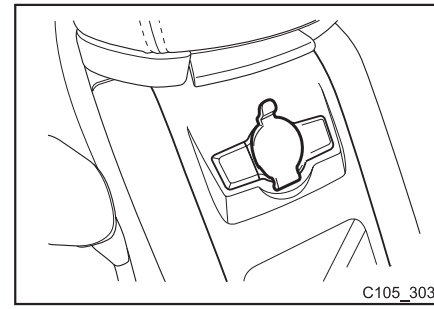
Note Do not place any objects on top of the cargo blind.



POWER SOCKETS

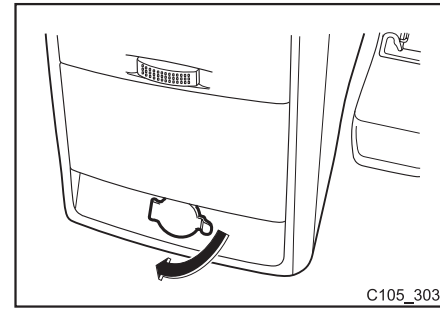
Front centre console

An accessory power outlet is located in the front centre console at the rear of the front cup holders.



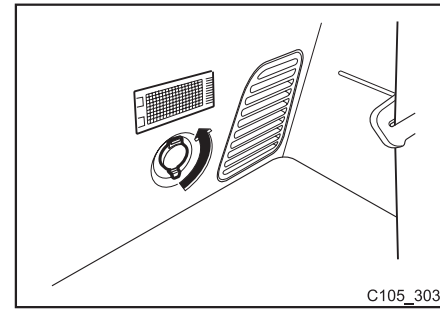
Rear centre console

An accessory power outlet is located on the rear of the centre console below the rear cup holders.



Rear luggage area

An accessory power outlet is located on the right-hand side of the rear luggage area.



Equipment connection

To plug in auxiliary electrical equipment, flip the outlet cover open and follow the installation instructions that are included with any electrical equipment to be installed.

These circuits are protected by a fuse and have a maximum current load. When not in use, always cover the outlet with the protective cap.

Note The ignition switch must be in the ON or ACC position for the outlets to operate.

WARNING
When using all accessory power outlets, the total maximum electrical load must not exceed 10 amps at 12 volts. Always switch off any electrical equipment when not in use. Leaving electrical equipment on for extended periods with the engine stopped will drain the battery.

CHAPTER 4

Driving

Page

Safety 4-2
Driving precautions.....4-4
Park brake 4-8
Park Assist.....4-9
Engine starting.....4-12
Transmission operation 4-13
Shift lock control system* 4-13
Active safety systems.....4-18
Anti-lock Brake System (ABS) 4-18
Electronic Stability Program (ESP®).....4-19
Descent Control System (DCS).....4-21
All Wheel Drive system (AWD) 4-22
Add on equipment 4-23

*The asterisk signifies equipment options not in all vehicles, model variants, engine options, optional equipment and Genuine Holden Accessories (and Parts).

SAFETY

Before entering the vehicle

1. Check that windows, mirrors and lights are clean.
2. Visually check tyre inflation.

   Note It is recommended to check the tyre pressures with a pressure gauge each week.

Before driving away

1. Ensure that all doors are closed and secured.
2. Position your seat for comfortable driving.
3. Adjust rear vision mirrors.
4. FASTEN SEAT BELTS.
5. Check if the warning indicators light up when you turn the key to start the engine. Refer to *Warning/reminder indications* in chapter 1A.

   Automatic only: Have the ignition on and press the brake pedal before moving the transmission selector away from the **P** (park) position.

Parking

1. Apply the park brake.
2. Manual transmission: Place in reverse or first gear.

   Automatic transmission: Place in **P** (park) position.
3. Close all windows.
4. Switch off all exterior lights.
5. Turn the ignition key to the **LOCK** position and remove the key.
6. Lock all doors.

WARNING

- To avoid the possibility of injury, always fully apply the park brake before exiting the vehicle.
- Be careful where you park or drive. As with any vehicle, do not park or operate this vehicle in areas where combustible materials such as dry grass or leaves can come in contact with the hot exhaust system.
- Never leave the engine running in an area such as a closed garage or underground car park.

SAFETY cont.

Off road driving

The Captiva has not been designed as a full off road vehicle. The requirement to maintain a very high degree of comfort, ride, handling and stability dictates the ground clearance and may not be sufficient to allow the vehicle to be driven over very severe four wheel drive tracks.

To achieve a high degree of unsealed road capability, the vehicle is equipped with a fully automatic all wheel drive system, increased ground clearance and a traction control system.

Road conditions

The vehicle is capable of being driven over poorer roads, although extra care must be taken when driving in conditions that may not be familiar. Some roads are often not well maintained and may have washaways, loose or slippery patches, rocks, fallen tree branches, deep pot holes or ditches that can catch out the unwary driver. These roads must be driven at slow speed and with great caution.

It is highly advisable to travel with another vehicle when travelling on remote or poor quality roads.

DRIVING PRECAUTIONS

Running-in

These days, there is no need to follow the formal running-in schedule. However, by observing a few simple precautions during the first few hundred kilometres of driving you will greatly assist your vehicle's future performance and economy.

For the first 500 km, do not exceed 90 km/h. Up to 1500 km, avoid driving at any one speed, either slow or fast, for any length of time.

Include some higher speeds during this period. Always drive at moderate speed until the engine has completely warmed up.

For the first 500 km heavy braking should be avoided, except in an emergency, since brake misuse during this period could impair future braking efficiency.

It is best to drive your new vehicle for 1500 km before towing a load. If you must tow before this do not exceed 80 km/h on good roads. No heavy off road towing should be attempted before 1500 km.

Power steering

The steering system fitted to your vehicle is power assisted. It has been designed to reduce steering effort. Care should be taken to avoid holding a prolonged turning force on the steering wheel when the steering is at left or right lock when stationary (e.g. during parking manoeuvres), as this creates high operating temperatures and pressures within the system.

If the power assistance for the steering is not working because a fault has developed, the vehicle can still be steered. However, due to the significant level of extra effort required to steer, it is recommended that you fix the problem promptly.

Engine misfire

If the engine is misfiring, reduce the vehicle speed and do not attempt to tow a caravan or trailer, until the misfiring is corrected by the nearest Holden Dealer. Continued driving while the engine is misfiring could result in the catalytic converter and exhaust system overheating, resulting in vehicle damage.

Loose articles

Do not leave loose articles or luggage in the passenger compartment or the rear luggage area, always secure all items.

WARNING
Gas cylinders can leak, creating a risk of fire or explosion. As a precaution, ensure adequate ventilation when carrying gas cylinders. They must be restrained from rolling around, and where possible, placed in the load area of the vehicle. It is recommended that if gas cylinders are frequently transported, a purpose built carrying compartment be used. Transportation of gas cylinders is regulated by legislation in some States.

DRIVING PRECAUTIONS cont.

Loading the vehicle

Loading the vehicle changes the mass distribution and therefore the handling of the vehicle when driving. After loading the vehicle, extra care should be taken to become familiar with the feel of the vehicle while driving. Refer to *Loading the vehicle* in chapter 9. Refer to *Under bonnet checks* in chapter 7 for information on tyre pressure when the vehicle is loaded.

Brakes

Power assisted brakes, which are fitted to your vehicle, utilise vacuum from the engine when it is running. Never let the vehicle run down steep inclines without the engine running. Never coast with the engine switched off.

A decrease in driving, cornering and braking traction occurs when water, snow, ice, gravel or other materials are on the road surface. Driving practices and vehicle speed should be adjusted to suit the road conditions.

Driving through water may affect performance. Applying the brakes lightly will indicate if they have been affected. To dry them quickly, lightly apply the brakes while maintaining a slow forward speed with an assured clear distance ahead until brake performance returns to normal.

Brake pedal travel should not be obstructed by ill-fitting floor mats or any other material under the pedal which causes interference with normal pedal movement.

Your seat should be positioned so that you can push the brake pedal satisfactorily under all braking conditions.

Off-road

Following a period of off-road driving, particularly in wet weather, the front of the vehicle should be hosed down to clear any accumulation of mud. In particular, pay specific attention to both sides of the radiator.

Tyre grip

A decrease in tyre grip occurs when water, snow, ice, gravel or other materials are on the road. Driving speed should be adjusted to the road conditions.

When driving on wet or slushy roads, it is possible for a wedge of water to build up between the tyre and road surface. This phenomenon, known as hydroplaning, may cause partial or complete loss of grip, which affects steering and braking. To reduce the possibility of hydroplaning:

- Reduce speeds during rainstorms.
- Replace tyres when tread wear indicators are visible.
- Regularly check if the tyres are properly inflated.

When driving on dusty roads, a build up of dust accumulates on the inner surface of the rear wheel rims. When the vehicle stops the dust from the top of the rim may fall to the bottom, creating an out of balance condition which can cause noticeable shake or vibration in the vehicle at speeds over 80 km/h. If the vibration is objectionable, the dust will need to be removed from the inner rims with a scraper or similar.

DRIVING PRECAUTIONS cont.

Mud and snow tyres

WARNING
- The use of tyres that are a different size or construction i.e. mud or snow tyres, may adversely affect the ESP® system.
- When fitted with winter tread tyres, the vehicle should not be driven at speeds in excess of the tyre category symbol as moulded on the tyre, or in the absence thereof, at high speeds.

Difficult conditions

If there is any doubt about the road being passable, it is better to stop the vehicle well before the hazard and check on foot before driving the vehicle through it.

If the ground is very uneven or rocky, do not grip the steering wheel with your thumbs around the rim of the wheel. A sudden steering kickback due to an unseen obstacle could cause injury to the thumb.

Ensure all luggage, and equipment is securely tied down when driving over rough or uneven surfaces.

Snow chains

WARNING
You must not use standard snow chains if your vehicle is fitted with 17 or 18 inch wheels. The fitting of standard snow chains to larger size wheels may cause damage to your vehicle. Please check with your Holden Dealer for available alternatives.

Provided the correct snow chains are fitted ensure the following are observed:

- Snow chains may only be used at speeds up to 50 km/h.
- When driving on roads that are free of snow, Snow chains should only be used for brief periods, as they will wear quickly and may snap.
- The part of the snow chain that covers the tyre tread should not be thicker than 13 mm. The part of the snow chain that wraps around the side of the tyre should not be thicker than 15 mm including the chain clasp (16 inch wheels only). The use of thicker chains may cause damage to the body of the vehicle.

Mobile phones and CB radios

Mobile phones and CB radio equipment, which use an integrated antenna, may temporarily affect the vehicle's electronics (permanent damage is unlikely) when used inside the vehicle, due to the interference created when transmitting.

Therefore, mobile phones and CB radio equipment that use an antenna fitted to the outside of the vehicle, should be used whenever possible.

If phones or CB radios with an integrated antenna must be used inside the vehicle, care should be taken not to operate near the dashboard area.

DRIVING PRECAUTIONS cont.

Water crossing

Before crossing water it is recommended to switch off the air conditioning.

If it is necessary to drive through deep water, check the depth with a stick or by wading into the water before driving through. Do not attempt to drive through water more than 300 mm deep (approximately 12 inches). Always drive through deep water very slowly, as too high a speed would make a bow wave that may cause water to enter the engine through the inlet system and cause major damage. Never drive into fast running water. The force of the water can easily move the vehicle sideways, possibly into deeper water.

Always check the brakes for effectiveness immediately after driving through deep water. Drive slowly and check the pedal force. If the brakes are wet, several firm brake applications will dry them out quite quickly.

If the vehicle is stationary in deep water for an extended period, it should be checked by an authorised Holden Dealer as soon as practicable for water entry to engine, transmission, differentials and wheel bearings.

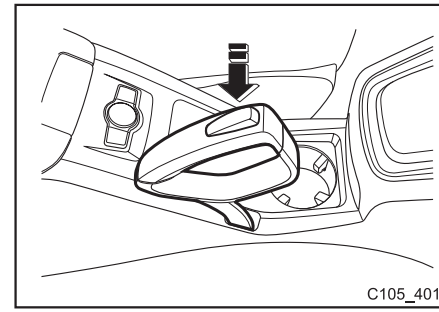
PARK BRAKE

The park brake acts on the rear wheels and the lever is located between the front seats.

To apply the park brake, stop the vehicle, apply the brake pedal and pull the lever firmly upward.

To release the park brake:

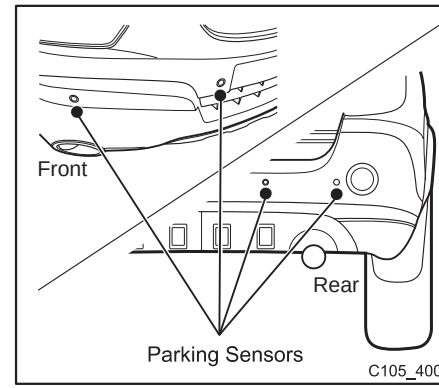
1. Push the button on the lever.
2. Pull the lever up slightly.
3. Lower the lever while holding the button in.



WARNING
Do not drive the vehicle with the park brake applied.

PARK ASSIST

The Park Assist system is able to detect and indicate obstacles at the front and rear of the vehicle when parking. The system consists of four sensors in each of the front and rear bumpers, a control unit and a speaker in the vehicle's interior.



WARNING

- The driver is always responsible for taking care and attention while manoeuvring the vehicle. The Park Assist system is only an aid and is neither intended to, nor able to take over any responsibility.
- The park sensors may not be able to detect all objects under every condition e.g. objects too close to the vehicle, objects above or below the sensors, or objects with a surface that absorbs ultrasonic waves. Additionally, some ambient conditions like ultrasonic waves or heavy rain can cause disruptive reflections from an object's surface. Such objects may not be detected.
- Always manoeuvre the vehicle slowly to allow yourself sufficient time to react. The warning alarms will sound only while the vehicle's speed is below 5 km/h.

Notes on operation

- If the sensors receive other ultrasonic signals e.g. metallic sounds or exhaust brake noise from heavy commercial vehicles, the Park Assist system may not work properly.
- Clean dirty sensors with a soft sponge and clean water.
- Do not impact or shock the sensors by hitting or directing a high pressure water cleaner directly at them while washing, or the sensors may be damaged.
- The Park Assist system may not activate if the sensors are frozen or covered with dirt or mud.
- The Park Assist system may not operate correctly when the vehicle is driven over uneven surfaces.
- The Park Assist system might not recognise sharp objects, thick winter clothes or other materials which absorb ultrasonic waves.

PARK ASSIST cont.

Activating

The Park Assist system is activated automatically when:

- the ignition is switched on,
- drive or reverse gear is selected and
- the vehicle's speed is below 8 km/h.

A short single confirmation alarm will sound to confirm that the sensors are operational.

A fault in the Park Assist system is indicated by:

- The alarm sounding three times continuously when there are no obstacles around the front or rear bumper.
- The Park Assist lamp **P** illuminating while driving. Refer to Warning/reminder indications in chapter 1A.

The Park Assist system may not work properly during a malfunction, you should manoeuvre the vehicle with special care. Check the sensors and clean them if necessary. If the malfunction persists, have the system checked by your Holden Dealer.

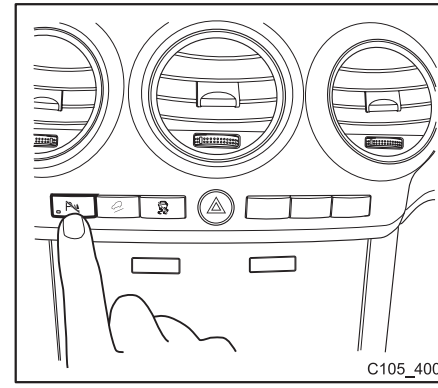
Deactivating

Automatic deactivating:

The system will be deactivated when the vehicle's speed raises above 8 km/h.

Manual deactivating:

To manually deactivate the Park Assist system press the **P** button on the dashboard. The indicator lamp on the button illuminates when the Park Assist system is deactivated.


C105_4002

Note The indicator lamp on the button will also illuminate when:

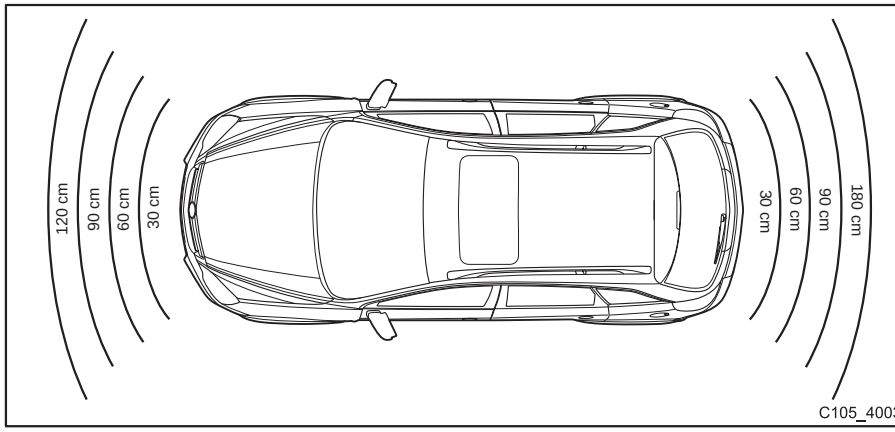
- the park brake is applied while the vehicle is moving or
- the sensors on the front or rear bumpers are dirty.

Note If the indicator continues to illuminate after cleaning the sensors have the system checked by your Holden Dealer.

Press the button again to activate the Park Assist system. The indicator lamp will go out.

PARK ASSIST cont.

Approximate range of sensors



Alarm tones

When the vehicle approaches an obstacle the sensors will start detecting at approximately:

- Front 120 cm
- Rear 180 cm

At the above distance the alarm tones will sound with a long pause between tones.

As the vehicle manoeuvres closer to the obstacle the pause between the alarm tones becomes shorter.

When the vehicle's front or rear bumper is approximately 30 cm from the obstacle the alarm tone will sound continuously.

Alarm	Sensing distance from bumper		Alarm tone
	Front bumper	Rear bumper	
1st alarm	approx. 120 cm	approx. 180 cm	--beep--beep--
2nd alarm	approx. within 90 cm	approx. within 90 cm	-beep-beep-beep-beep-
3rd alarm	approx. within 60 cm	approx. within 60 cm	beep beep beep beep
4th alarm	approx. within 30 cm	approx. within 30 cm	alarm stays on

ENGINE STARTING

Starting procedure

1. Apply the park brake firmly and release it only after you have started the engine and are ready to drive away.
2. Manual transmission: Fully depress the clutch pedal to the floor, move the gear shift lever to the **N** (neutral) position then crank the engine. The clutch pedal can now be released.

   Automatic transmission: Move the shift lever to the **P** (park) or **N** (neutral) position. The engine will not start if it is in any other position. As a safety precaution, you should have your foot on the brake pedal in order to shift the transmission lever out of the **P** (park) position.
3. Start the engine as outlined below.

   For cold or hot starting, the procedure is the same. Do not touch the accelerator pedal.

   Turn the key to the **START** position momentarily and then release it, as the engine starts automatically. The key automatically returns to the **ON** position when released.

   If the engine does not start within 10 seconds, wait another 15 seconds to let the starter motor cool down. Turn the key to start again with the accelerator pedal pushed completely down to the floor for a maximum of 10 seconds. If the engine still does not start, release the key and pedal. Wait another 15 seconds and then repeat the entire procedure. If the engine still fails to start, contact your Holden Dealer.

Engine will not crank or start

Remove the key from the ignition switch, insert the key and try starting the engine again.

Note If the immobiliser system indicator lamp illuminates while attempting to start the vehicle, a fault in the vehicle's immobiliser module may be indicated. The vehicle will not start with an immobiliser fault, contact your Holder Dealer to have the fault rectified.

WARNING
When trying to start the engine, do not hold the key in the start position for any extended time, for if unburnt fuel were to reach the catalytic converter and ignite, the catalytic converter could overheat or be destroyed by backfire.

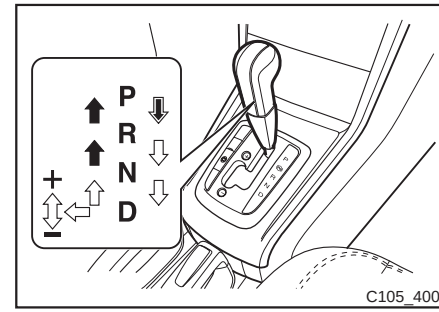
Note You should not subject the engine to high load conditions (for example full throttle acceleration or high speeds) until it has completely warmed up, otherwise, you may cause premature engine wear or engine damage.

TRANSMISSION OPERATION

AUTOMATIC TRANSMISSION*

This system has a five-speed electronically controlled automatic transmission. Its shift indicators are arranged with **P** (park) at one end, followed in sequence by **R** (reverse), **N** (neutral) and then the forward driving ranges.

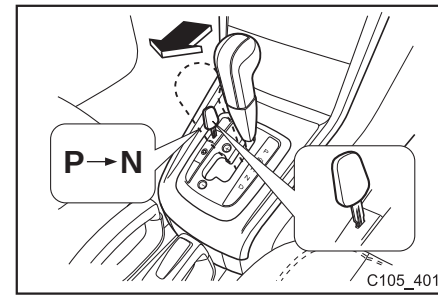
To prevent the vehicle from 'creeping' you should always have your foot on the brake pedal when shifting out of **P** or **N**.



SHIFT LOCK CONTROL SYSTEM* (AUTOMATIC TRANSMISSION)

Your vehicle has a Brake-Transmission Shift Interlock (BTSI) system. Before shifting from **P** (park), the ignition must be in the **ON** position and the brake pedal must be applied.

If the system does not respond to the above procedure and the shift lever can not be moved, use the following procedure:



1. Switch off the ignition (LOCK position) and remove the key.
2. Apply and hold the brake pedal.
3. Remove the cap from the transmission shift lock slot.
4. Insert and press the ignition key into the transmission shift lock slot.
5. Shift the gear lever to **N** (neutral).
6. Remove the key from the slot.
7. Start the engine and shift the transmission into the desired position.
8. Reinstall the cap.
9. Refer to your Holden Dealer as soon as possible.

Note

- If the shift lever is returned to the **P** (park) position, the above procedure will need to be repeated to shift the lever into **N** (neutral).
- The above procedure will need to be carried out if the vehicle has a flat battery and requires towing.

TRANSMISSION OPERATION cont.

P (Park) This stops the front wheels from rotating and should be selected (together with the park brake) when leaving the vehicle. Never select **P** until your vehicle is fully stopped. The **P** position is one of only two positions (the other is **N**) in which your engine may be started.

Note The vehicle is equipped with Brake Transmission Shift Interlock (BTSI). To move the transmission gear selector lever out of position **P** (park), have the ignition switched on and depress the brake pedal. If the vehicle's battery is flat, refer to *Shift lock control system* in chapter 6.

R (Reverse) Never select **R** until your vehicle is fully stopped. The reversing lamps operate when **R** is selected and the ignition is on. After reversing, ensure the vehicle has fully stopped before selecting a forward gear.

N (Neutral) This is the out-of-gear position. You may restart a stalled engine while the vehicle is still moving or stopped.

D (Drive) This is the normal forward driving position and allows the transmission to choose the appropriate gear (1st through to 5th) for the driving conditions and optimum fuel economy.

Fifth gear is overdrive which reduces engine speed and noise levels while increasing fuel economy.

Shifting between gear positions

Movement between certain gear positions requires pressing the release button on the front of the selector grip.

When the ignition is on, depress the brake pedal and press the release button on the front of the selector grip as indicated by the black/or white arrows as follows:

⇛ You must apply the brake pedal and press the release button on the selector grip to shift.

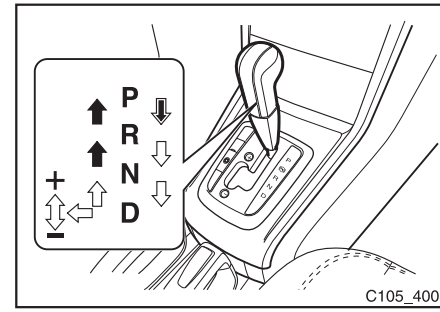
➡ You must press the release button on the selector grip to shift.

⇨ It is not necessary to apply the brake pedal or press the release button on the selector grip to shift.

WARNING
You can select some transmission positions without pressing the button on the selector grip. However, it is recommended that you become familiar with these positions to prevent any accident or damage to your transmission that may occur due to incorrect operation.

TRANSMISSION OPERATION cont.

Active select mode



Whether your vehicle is stationary or in motion, active select mode is selected by pushing the select lever from the **D** position to the left into the manual gate, To return to **D** range operation, pull the select lever back to the right into the main gate.

In active select mode moving the select lever backward and forward can make rapid gear shifts simple. In contrast to a manual transmission, the active select mode allows gearshifts with the accelerator pedal depressed.

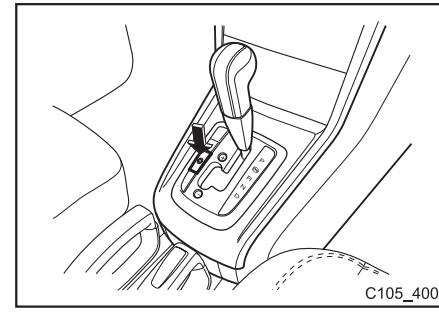
UP (+) Push the lever forward once to shift up one gear.

DOWN (-) Pull the lever backward once to shift down one gear.

Note

- In active select mode, only the five forward gears can be selected.
- To reverse or park the vehicle move the select lever to the **R** or **P** position as required.
- In active select mode, downward shifts are made automatically when the vehicle slows down. When the vehicle stops, 1st gear is automatically selected.
- To maintain the required levels of vehicle performance and safety, the system may not execute certain gear shifts when the select lever is operated.
- Before driving away from a stop on slippery road, push the select lever forward into the **+** (up) position. This causes the transmission to shift into 2nd gear for a smooth start. Pull the select lever to the **–** (down position) to shift back to 1st gear.

Winter mode



Use the winter mode in the event of starting or driving difficulties on icy and slippery roads. This mode will reduce slippage and loss of traction.

To activate the winter mode, press the winter mode switch on the centre console. The vehicle will move away in third gear, the winter mode indicator will illuminate on the instrument panel.

To return to normal mode, press switch again, the indicator lamp switches off.

TRANSMISSION OPERATION cont.

Automatic transmission emergency operation

If a problem is detected with the automatic transmission, the Malfunction Indicator Lamp (MIL) illuminates.

In this situation, the transmission may not shift automatically, or shifting may be much harsher than normal. Have the vehicle serviced as soon as possible by your Holden Dealer.

If the malfunction indicator lamp stays on after starting the engine and the transmission does not shift, contact your Holden Dealer.

Operating notes

- Do not go from **P** or **N** to **R** or **D** with the accelerator pedal depressed.
- When driving down a long hill, reduce your speed and select a lower range. The engine will provide a braking effect. Remember if you ride the brakes, they may overheat, resulting in reduced performance. This is particularly important when towing.
- Be careful when accelerating, shifting up, shifting down or braking on a slippery surface. The abrupt change in engine speed, such as sudden acceleration or engine braking, could cause the drive wheels to spin or skid.
- Do not depress the accelerator pedal with the brakes on in either **D** or **R**. This would overheat the transmission.
- Do not use the accelerator pedal to hold the vehicle on a slope, use the brakes.
- Do not coast the vehicle in **N** as this lessens your control and the engine braking power.
- Always slow down in gusty crosswinds.
- For information on checking the automatic transmission fluid level, refer to *Automatic transmission fluid level* in chapter 7.

Transmission kick down

For faster acceleration, press the accelerator pedal all the way down and hold it. The transmission will shift to a lower gear giving more power. When the desired speed is reached, lift off the accelerator and the transmission will shift up.

Engine braking

To use the braking effect of the engine compression when driving on a long downhill:

Using the active select lever, select a lower range. Engine braking is the most effective when using a lower range.

Stopping the vehicle

The select lever can be left in the chosen drive range with the engine running, when stopping on a hill, engage the park brake or press the brake pedal. Do not hold the vehicle stationary by pressing the accelerator.

Transmission shift lock control system

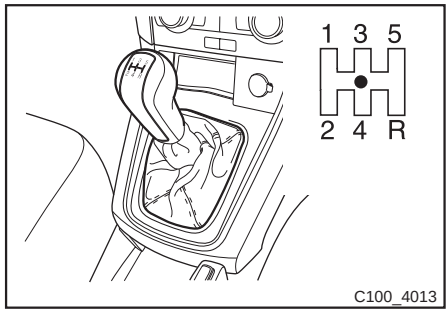
The vehicle has a Brake Transmission Shift Interlock (BTSI) system. For operating instructions refer to *Shift lock control system* in chapter 6.

TRANSMISSION OPERATION cont.

*MANUAL TRANSMISSION**

Shift patterns

The manual transmission fitted has five forward gears and a reverse gear. The shift pattern illustrated is also found on the top of the gear shift lever.



Operating notes

- When shifting from one gear to another, be sure to depress the clutch pedal fully to avoid damage to the transmission.
- Never attempt to engage reverse gear while the vehicle is still moving. Ensure a slight pause between pressing the clutch pedal and moving into reverse gear to allow all the rotating components to stop. Whenever reverse gear is selected with the ignition on, the reversing lamps illuminate.
- Shift the gear lever with a moderate effort to allow time for the transmission synchromesh to work properly.
- To avoid damage to the clutch, do not drive with your foot resting on the clutch pedal.
- When stopped on an incline, do not hold the vehicle stationary by slipping the clutch. Use the park brake or foot brake.
- When climbing steep grades, change down to a lower gear before the engine starts to labour. To maintain safe speeds on a steep downgrade and to reduce brake wear and overheating, shift into a lower gear before starting the descent.
- Do not over rev the engine when shifting down to a lower gear.

ACTIVE SAFETY SYSTEMS

ANTI-LOCK BRAKE SYSTEM (ABS)

The anti-lock brake system (ABS) continuously monitors the vehicle's brake system and prevents the wheels from locking, irrespective of the road conditions and tyre grip. It starts to regulate the braking effect as soon as a wheel shows a tendency to lock. The vehicle remains steerable, even in the event of panic braking, for instance on bends or when swerving to avoid an obstacle.

WARNING
Do not let this special safety feature tempt you into taking risks when driving. Traffic safety can only be achieved by adopting a responsible driving style. The vehicle's speed should always be adjusted to suit road and traffic conditions.

In an emergency braking situation the driver should keep full force on the brake pedal without pumping it. Pumping the brake pedal can reduce brake efficiency when ABS is controlling the braking.

The ABS warning lamp (ABS) is illuminated for a few seconds when the ignition is switched to the **ON** position. If it does not go out, or if it comes on during driving, there is a defect in the ABS. The vehicle's brake system remains operational but without ABS assistance. Consult your Holden Dealer as soon as possible.

The braking effect is regulated by the ABS every millisecond during braking.

When your vehicle is in a critical braking condition, ABS makes itself noticeable through pulsing of the brake pedal and the noise of the regulation process, thereby reminding you to match your speed to the road conditions, even though it is keeping control of the braking.

Shortly after driving away, the system performs a self-check. The self-check may be audible as well as felt as pulsing through the brake pedal.

Brake pedal

Where possible, avoid braking hard. Smooth operation of the brake pedal will increase the life of the brakes and reduce the wear on the braking system.

If under normal vehicle operation the brake pedal develops abnormal behaviour, contact your Holden Dealer.

ACTIVE SAFETY SYSTEMS cont.

ELECTRONIC STABILITY PROGRAM (ESP®)

Monitoring

The Electronic Stability Program (ESP®), is an advanced feature that works in conjunction with the vehicle's Anti-lock Braking System (ABS) and includes the Traction Control System (TCS). When required, the ESP® improves driving stability in any driving situation.

The ESP® assists in maintaining vehicle stability by providing intervention when the vehicle's grip level is exceeded (such as a sudden lane change, slippery or unexpected road conditions). The ESP® processes information from the various vehicle sensors and can intervene by altering engine power and/or braking on specific wheels as required. This can improve the vehicle's steering control and power delivery, on wet or slippery roads, particularly on snow or ice.

Hydraulic Brake Assist system (BA)

The hydraulic brake assist system is incorporated in the ESP® unit and detects when the driver is applying the brakes in a panic stop situation, by recognising how rapidly the accelerator is released and the brake pedal is applied. The BA initiates ABS earlier, shortening the stopping distance required.

WARNING

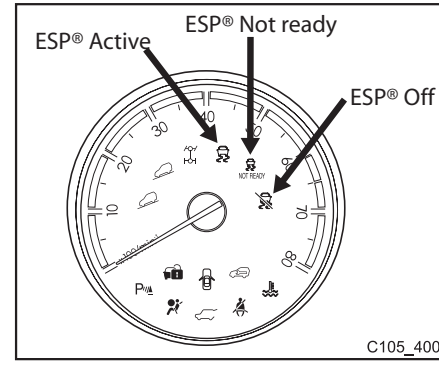
- The use of tyres that are a different size or construction i.e. mud or snow tyres, may adversely affect the ESP® system.
- Do not let this special safety feature tempt you into taking risks when driving. Traffic safety can only be achieved by adopting a responsible driving style. The vehicle's speed should always be adjusted to suit road and traffic conditions.

Operation

The ESP® function operates automatically in very unstable conditions, it does not operate under normal driving conditions.

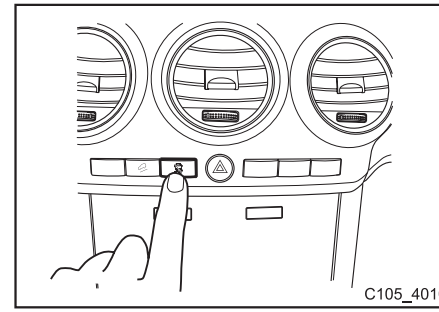
ESP® not ready

The ESP® not ready indicator illuminates when the ESP® is not ready for operation due to cold conditions, this indicator will extinguish when the vehicle warms up.



ACTIVE SAFETY SYSTEMS cont.

ESP® off button



In certain conditions it may be helpful to disable the ESP® by pressing the ESP® off button located on the left-hand side of the digital clock. For example , if the vehicle is bogged in deep mud or sand, it may be possible to get more traction from a slightly spinning wheel.

Pressing the ESP® off button again will resume the ESP® function and the ESP® off indicator will extinguish.

Note If the ESP® off does not illuminate when the button is pressed, or it illuminates while driving, it indicates the ESP® system is not functioning. Contact your Holden Dealer.

Electronic brakeforce distribution (EBD)

This system senses the vehicle load (both passengers and luggage) and optimises rear braking force. This system works in combination with the ABS system to prevent excessive braking locking the rear wheels by transferring braking pressure between the front and the rear axles.

Traction control system (TCS)

This system uses sensors that detect imminent wheel spin, if one wheel is about to spin, braking is applied to transfer torque to a wheel with better traction, this improves performance when starting off and accelerating.

Active rollover protection (ARP)

This function is part of the ESP® system with an additional sensor that monitors the vehicle body roll. ARP detects at an early stage the possible threat of the vehicle rolling over. For example, if the system recognizes a hasty steering movement and body roll that is typical of an obstacle avoidance manoeuvre, it rapidly applies the brakes with high bursts of pressure to the appropriate wheels to interrupt the rollover before it occurs.

ACTIVE SAFETY SYSTEMS cont.

DESCENT CONTROL SYSTEM (DCS)

Description

The descent control system is only for driving down steep gradients, it maintains the slow speed descent of your vehicle.

The descent control system works in conjunction with the cruise control system and utilises the active braking capability of the vehicles Anti-lock Braking System (ABS) to maintain an initial target vehicle speed (5 km/h) when travelling downhill.

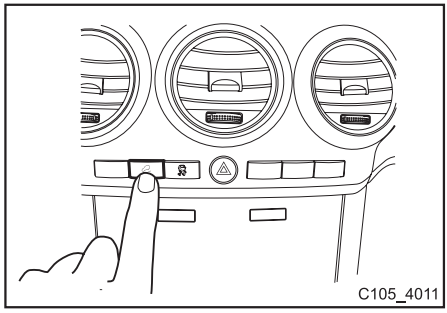
Operation

The descent control system can be used when driving forward or in reverse.

The descent control system is activated using the switch located in the centre of the dashboard.

The accelerator pedal must not be depressed when DCS is activated.

The green DCS active indicator will illuminate when switched on. When the DCS is operating the DCS active indicator will flash.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Note

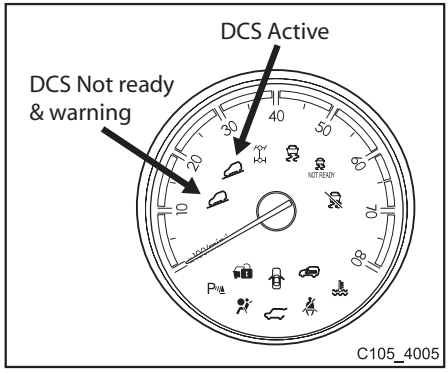
- If the driver needs to stop on a slope or go slower than 5 km/h, the brake pedal can be depressed, it will just momentarily de-activate the DCS. It will re-activate a few seconds after the brake pedal is released.
- If the amber DCS not ready and warning indicator illuminates it indicates there is a malfunction in the DCS system. If this condition occurs, contact your Holden Dealer.

DCS off

To deactivate the DCS, press the DCS button again the DCS active indicator will extinguish.

Note

- The DCS will not operate when the vehicle speed is over 50 km/h.
- DCS is designed for off road driving when negotiating steep gradients.
- Unnecessary usage of DCS can cause a malfunction in the brake system or ESP®. Do not use DCS when driving on normal roads.
- It is normal to have strong vibrations and noise from the brake system when DCS is activated.



ACTIVE SAFETY SYSTEMS cont.

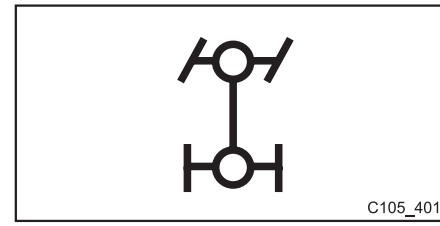
ALL WHEEL DRIVE SYSTEM (AWD)

Operation

The active on demand all wheel drive system (AWD) operates automatically without any action required by the driver. If the front drive wheels slip, the rear wheels automatically drive the vehicle as required. There may be a slight engagement noise during hard use, this is normal.

The AWD warning indicator on the right-hand side of the instrument panel flashes when the AWD system is temporarily disabled.

If the lamp flashes briefly and then stops, this is normal and does not indicate a system fault. However if the indicator flashes continuously this indicates there is a malfunction in the AWD system. Contact your Holden Dealer.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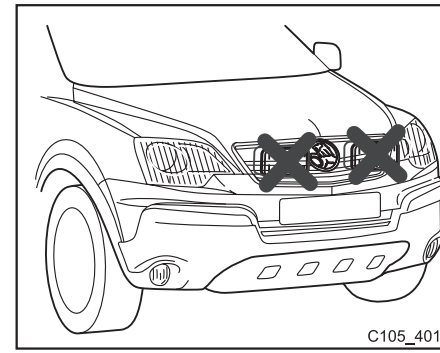
ADD ON EQUIPMENT

Fitting driving lamps or insect screens

When fitting these accessories be careful not to restrict air flow, otherwise engine overheating and/or poor air conditioning performance may result.

Nothing should be fitted over the upper or lower air intakes at the front of the vehicle, as this will affect engine cooling.



Fitting roo/nudge bars

If a nudge bar is to be fitted, it is critical the Holden approved nudge bar be used. Other types ***must not*** be fitted. The Holden nudge bar is available from your Holden Dealer and has been compatibility tested with the vehicle's design, including the Holden airbag system.

WARNING
Fitting other types of roo/nudge bars may affect crash performance, airbag performance and engine cooling.

Fitting a roo bar, or making other modifications to the front of the vehicle, may change the impact speed which would normally cause the airbag to inflate, reducing its effectiveness. Roo bars should not be fitted to vehicles operating in suburban areas, as they increase the risk of injury to a pedestrian in the event of a collision. Roo bars are only recommended for country or outback areas, where additional protection from straying animals is required. Please remember that defensive driving and limiting driving speed to the road conditions is always the best approach, particularly where road side signs indicate wildlife is abundant.

Cargo barrier

If a cargo barrier is to be fitted, it is critical the Holden approved cargo barrier be used. Other types ***must not*** be fitted. The Holden cargo barrier is available from your Holden Dealer and has been compatibility tested with the vehicle's design, including the Holden side curtain airbag system, fitting any other type of cargo barrier may interfere with the deployment of the side curtain airbag system and reduce its effectiveness in protecting passengers (excluding third row seats) in the event of a collision.

NOTES

CHAPTER 5

Fuel

Page

Fuel.....5-2

Emission control 5-5

Reducing fuel consumption 5-6

WARNING

The vehicle's engine has not been designed for conversion to LPG. The performance and safety of the vehicle would be seriously jeopardised if converted to LPG.

*The asterisk signifies equipment options not in all vehicles, model variants, engine options, optional equipment and Genuine Holden Accessories (and Parts).

FUEL

EXHAUST WARNING – CARBON MONOXIDE POISONING

- Exhaust gases contain carbon monoxide, a dangerous gas, which can cause unconsciousness and even death to both humans and animals.
- You could inhale the gases if the exhaust system on your vehicle is faulty.
- To protect against exhaust gases entering the vehicle, the exhaust system and body should be inspected:
  - each time the vehicle is serviced,
  - whenever a change is noticed in the sound of the exhaust system,
  - whenever the exhaust system, underbody or rear of the vehicle is damaged.
- Take the vehicle to your Holden Dealer if you think your vehicle needs inspecting for any of the above reasons.
- Do not sit (or leave children or pets) in a parked vehicle for any extended period of time with the engine running. Turn the fan on using any setting that brings outside air into the vehicle. Do not run the engine in an enclosed area (such as a garage) any longer than needed to move the vehicle.
- Be sure to seal any unused top strap anchor location holes with the supplied plug or with a suitable bolt, otherwise exhaust gas may enter the vehicle through these holes. Refer to *Child restraints* in chapter 3.

WARNING – USE OF FUEL CONTAINING ETHANOL

When purchasing such fuel, we recommend that the vehicle be operated on fuel containing no more than 10% ethanol. Purchasing fuel from a reputable fuel retailer may reduce the risk of purchasing fuel with more than 10% ethanol or fuel which contains abnormal fuel properties. Under no circumstances should fuel containing more than 10% ethanol be used. Use of such fuels may result in engine malfunction, starting and operating difficulties, and materials degradation, resulting in permanent damage to the vehicle and the risk of personal injury. It is also important to note that when ethanol blends are used, fuel consumption can be expected to increase due to the lower energy content of ethanol.

The use of any fuel, other than the fuel specified in this chapter, may seriously damage the vehicle and may void the warranty. Only clean fuel of good quality should be used. The use of fuel containing more than 10% ethanol may also affect your New Vehicle Warranty to the extent that Holden considers that the fuel affects the specifications and quality of your vehicle.

PETROL WARNING

- Petrol is extremely flammable and highly explosive.
- Always switch off the engine and any mobile phones when refuelling.
- Do not smoke or allow open flames or sparks near the vehicle when refuelling.
- If petrol fumes are smelt while driving, the cause should be found and corrected without delay by a Holden Dealer.
- Static electricity can ignite fuel vapour. Only use pumps, hoses and containers that are properly grounded when filling up with fuel.
- To avoid injury, to you and to others, read and follow all instructions on the petrol station pump.

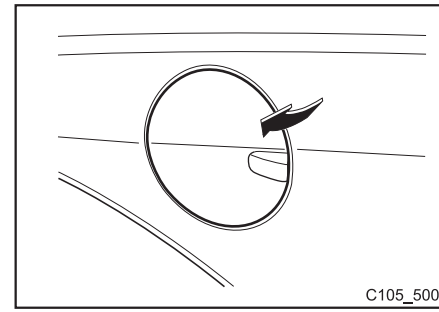
FUEL cont.

FUEL FILLING

Fuel filler door

- Stop the engine.
- Unlock the doors.
- Open the fuel filler door by hand.

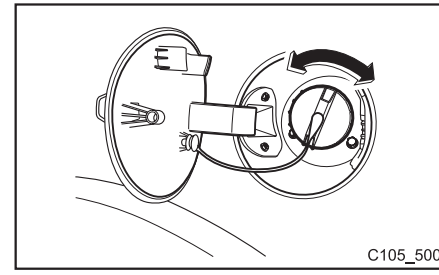
Note The fuel filler door will unlock when the button on the key is pressed.



Fuel cap

Remove the fuel cap by turning it slowly anticlockwise.

Note The fuel cap can be stored on the inside of the fuel filler door while filling up with fuel.



WARNING
If you open the cap rapidly while pressure in the tank is high, fuel may spray out from the tank. Turn it slightly to release the pressure from inside the tank.

After refuelling, turn the fuel cap clockwise until a clicking sound is heard, then push the fuel filler door closed. When closing the fuel door, make sure that it latches.

Fuel tanks should always be filled at the intermediate or fast fill rate. Do not add any more fuel after the fuel filler first clicks off or fuel blows back - as this allows room for the fuel to expand inside the tank.

If you accidentally spill fuel on the vehicles exterior surfaces, it can damage the paint. Wash it off as soon as possible.

Petrol filler nozzle restrictor

To help protect the atmosphere, your vehicle has been designed to operate on unleaded petrol. A petrol nozzle restrictor is fitted to ensure that only unleaded petrol is used. This allows the smaller diameter unleaded petrol nozzle to open the hinged flap inside the filler neck, so that petrol can be added to the tank. The leaded petrol nozzle is wider and therefore cannot open the flap.

WARNING
The use of fuel, other than the fuel specified, may cause serious damage to your vehicle and may void your warranty. Only clean fuel of good quality should be used.

FUEL cont.

Fuel requirements for petrol engines

Note Use UNLEADED PETROL of 91 (RON) octane rating or higher.

High octane unleaded petrol (premium etc.) may be used, but is not required for your vehicle. The use of fuel with a lower octane rating than recommended may cause engine knock. Continued use of such fuel can cause engine damage and void the warranty. If you detect a heavy engine knock even when using fuel of the recommended octane rating, have the engine checked.

EMISSION CONTROL

Your vehicle is fitted with emission control systems which are designed to reduce the amount of hydrocarbons (HC), carbon monoxide (CO), and oxides of nitrogen (NOx) that are emitted from the engine and fuel system into the atmosphere. HC and NOx, when exposed to sunlight under certain conditions can contribute to smog. In addition, carbon monoxide is toxic when it becomes highly concentrated in the air.

The three major emission control systems fitted to your vehicle are:

- **Evaporative emission control system**

  This system is designed to prevent the escape of fuel vapour from the fuel system and recycles it through the normal combustion process.
- **Crankcase emission control system**

  This system is designed to prevent blow-by gases from escaping into the atmosphere and recycles them through the combustion process.
- **Exhaust emission control system**

  The various components of this system operate collectively to limit HC, CO and NOx emissions in the exhaust gas. The exhaust emission control system is comprised of components including electronic control of spark, fuel and idle speed. In addition, Australian vehicles have a catalytic converter and closed loop mixture control system.

For detailed information on the operation, servicing and repair procedures for these systems, refer to the Service/warranty booklet and/or the emission label inside the engine compartment of your vehicle.

Owner responsibility

Vehicles sold and serviced within Australia have been designed to comply with Australian Design Rules and State Regulation emission requirements.

The engine control system or the exhaust system of the vehicle must not be modified in any way. Any change to the design may increase the emissions or otherwise defeat the intent of the regulations.

WARNING
Any person who removes, modifies or hinders any part of the emission control system may be contravening Australian Design Rules. It is also illegal to drive a vehicle modified in this way.

First drive

When the vehicle is driven for the first time, wax and oil on the exhaust system may evaporate, producing smoke-like emissions that should not be inhaled. Allow wax and oil to evaporate while the vehicle is in the open air.

Maintenance requirements

To ensure continuing compliance with the regulations, you must maintain your vehicle's emission control system as per your vehicle's service manual, at the frequency shown in the maintenance schedule in the Service/warranty booklet. It is recommended the necessary servicing be performed by an authorised Holden Dealer who has the specialised servicing equipment and trained personnel available to ensure the adjustments and services specified are carried out.

REDUCING FUEL CONSUMPTION

Engine

Maintain the engine in peak mechanical condition by having it serviced regularly in accordance with the maintenance schedule in the Service/warranty booklet. This ensures items such as the spark plugs and air cleaner are maintained for minimum fuel usage and peak engine performance.

Tyre pressure

Keep the tyres at the recommended pressures. Under-inflated tyres create extra rolling resistance and waste fuel. Refer to *Exterior checks* in chapter 7.

Incorrect tyre pressures can also cause uneven and premature tyre wear.

Wheel alignment

Maintain correct front wheel alignment. Incorrect alignment makes the front wheels drag which wastes fuel and causes uneven and premature tyre wear.

Warm ups and idling

Avoid long engine warm ups. They are unnecessary and waste fuel. An engine takes approximately five minutes to reach its efficient operating temperature and it does this most effectively when driving.

You should also avoid long engine idling. If you have to wait for more than a couple of minutes, switch off the engine to conserve fuel.

Accelerating, driving and braking

Accelerate gently and avoid rapid accelerating from lights or stop signs. Sudden bursts of speed, full throttle acceleration and hard braking are certain fuel wasters.

Drive the vehicle at steady speeds where possible (after run-in). It is desirable to reach top gear as soon as possible, but under no circumstances should you force the engine to labour in top gear.

Riding the brake

Do not rest your foot on the brake pedal when you do not intend to brake, as this can overheat the brakes, increase brake pad wear, damage the brakes and waste fuel.

Air conditioning

Switch off the air conditioning when not required. However, once every two weeks, with the engine running, switch the air conditioner on for five to 10 minutes, even in winter, to lubricate the seals.

Loading

Unnecessary weight increases fuel consumption, especially when accelerating.

CHAPTER 6

Emergencies

Page

Customer assistance – Australia....6-2

Customer assistance – New Zealand....6-3

Flat tyre....6-4

Changing a flat tyre....6-5

Towing a disabled vehicle....6-9

Shift lock control system* 6-11

Engine overheating....6-12

Flat battery....6-15

Fuse replacement....6-17

Bulb replacement....6-22

*The asterisk signifies equipment options not in all vehicles, model variants, engine options, optional equipment and Genuine Holden Accessories (and Parts).

CUSTOMER ASSISTANCE

We want you to be happy with your new vehicle, together with the people you deal with while you have the vehicle.

Normally, any problems with the sales, operation, servicing, parts/accessories or the validity of original equipment supplied with your vehicle will be handled by your Holden Dealer's Sales and Service Department.

We realise however that, with the best intentions, misunderstandings sometimes occur.

Therefore, we suggest you discuss any concern with one of the Holden Dealer's management people. If you have not received satisfaction from the Sales Manager or Service Manager – go to the General Manager or to the Dealer Principal.

By now you should have satisfaction. If not, the Holden Customer Assistance office is at your disposal.

The Holden Customer Assistance representatives can be telephoned from anywhere within Australia for only the cost of a local call. The contact number is:

1800 033 349

Naturally, telephoning is the quickest and the best way to contact. However, if you prefer to write the address is:

The Manager
Holden Customer Assistance Centre
GPO Box 1714
Melbourne 3001

Your letter should clearly outline your concern or query, and include the following:

- Your name and address.
- Telephone numbers, both private and business.
- Servicing dealer's name and address.
- Vehicle model.
- Vehicle identification number (I.S.O.V.I.N.), refer to the inside front cover of the service booklet in your vehicle's glovebox.
- Date of purchase.
- Current odometer reading.

Most of this information will be found on the Vehicle Identification Certificate, located inside the front cover of the service booklet in your vehicle's glovebox.

Before you write however, remember that the telephone is the quicker and more efficient means of communication.

FOR NEW ZEALAND HOLDEN OWNERS

The information in this Owner's Handbook applies primarily to Australian Holden vehicles and there may be some differences to the Warranty and Owner Assistance provisions for New Zealand. Applicable details for New Zealand are set out in the Holden Warranty and Owner Assistance Information booklet enclosed in the New Zealand glovebox wallet.

New Zealand Assistance can be reached on:

0800 HOLDEN (0800 465 336)

This number provides access to New Zealand Roadside Assistance as well as New Zealand Customer Assistance.

If you prefer to write the address is:

The Manager
Holden Customer Assistance Centre
GPO Box 1714
Melbourne
Australia 3001

FLAT TYRE

WARNING

- Use the jack only for lifting the vehicle when changing wheels.
- Do not jack a vehicle with a trailer attached. Remove the trailer first.
- Do not get under a vehicle supported only by a jack, use vehicle support stands.
- Do not start or run the engine while the vehicle is only supported by the jack.
- All passengers should be out of the vehicle when it is being jacked.
- Use the jack only at the designated lifting points. Use in other locations may result in the vehicle falling off the jack, or damage to the vehicle.
- The vehicle should only be jacked on hard, level surfaces.

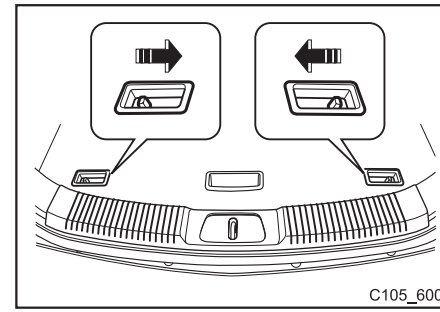
CHANGING A FLAT TYRE

1. Park on level surface, ensure the wheels are pointing straight ahead and set the park brake firmly.
2. Remove the ignition key (to lock the steering) and place the transmission shift lever in the park (**P**) position.

Removing the spare wheel, jack and tools

The spare wheel, jack and tools are located below the luggage compartment floor.

1. Open the tailgate.
2. To access the spare wheel, jack and tools, slide the two latches toward the centre and lift the floor panel upward.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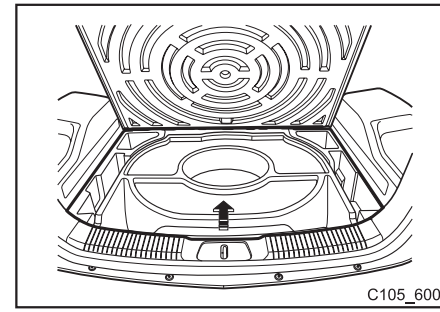
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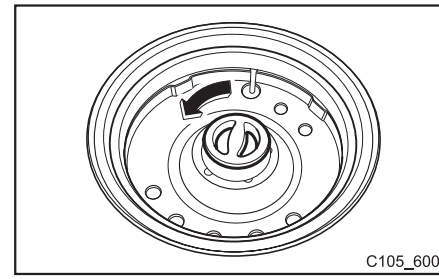
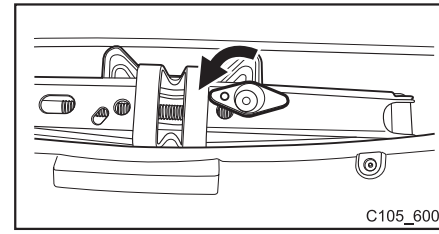
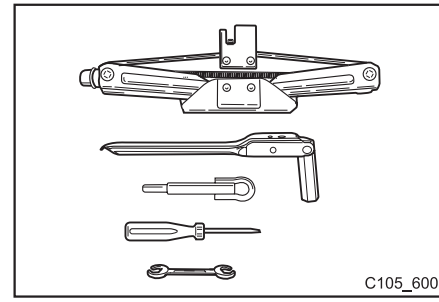
CHANGING A FLAT TYRE cont.

3. Remove the wing bolt from the spare wheel by turning it anticlockwise.
4. Remove the spare wheel.

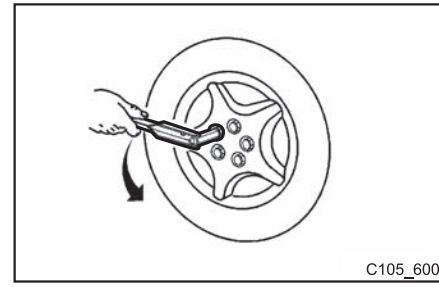


5. Remove the wing bolt from the jack by turning it anticlockwise.
6. Remove the jack.
7. Remove the straps holding the bag which contains the wheel wrench and remove the wheel wrench from the bag.



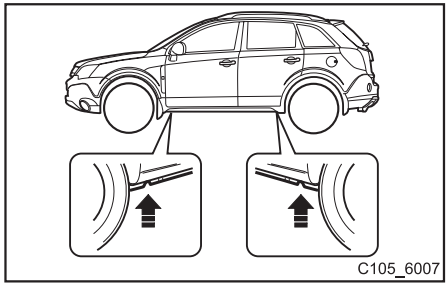


8. Use the wheel wrench to loosen the wheel nuts by one turn each.

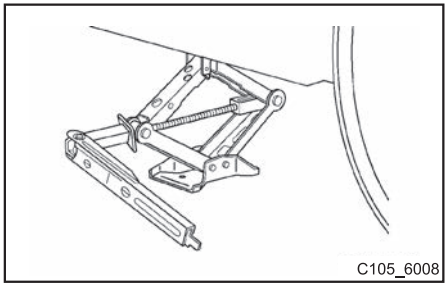


CHANGING A FLAT TYRE cont.

9. Place the jack under the jacking point nearest the wheel your want to change.



10. Attach the wheel wrench to the jack bolt head.
11. Turn the jack handle clockwise to raise the jack.
12. Raise the jack until the jack head fits firmly into the notch. Then raise the vehicle off the ground until there is room for the spare wheel to fit.



WARNING

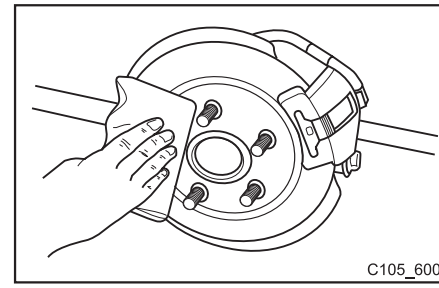
- Failure to position the jack as described could cause the vehicle to slip off the jack.
- Do not get under a vehicle supported only by a jack, use vehicle support stands.

Note Do not raise the vehicle off the ground more than necessary to change the wheel.

13. Remove the wheel nuts and take off the wheel.

CHANGING A FLAT TYRE cont.

14. Remove any dirt or rust from the wheel nuts and studs, mounting surfaces and spare wheel.
15. Place the spare wheel on the wheel mounting surface.
16. Install the wheel nuts and tighten by hand.
17. Turn the jack handle anticlockwise to lower the vehicle.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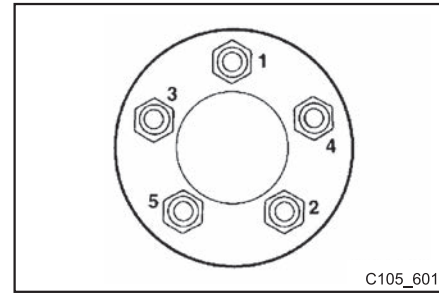
18. Tighten the nuts firmly with the wrench in the pattern shown. The proper torque is 125 Nm (Newton metres).
19. Store all the equipment in the proper storage area. To reduce rattling, stow the jack handle and tools securely in the correct storage compartment.
20. Store the wheel with the flat tyre in the luggage floor compartment. Have the flat tyre fixed or replaced as soon as you can in case you need to use it again.



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WARNING

- The steel spare wheel is for temporary use only. The vehicle must not be driven at more than 80 km/h when this wheel is fitted.
- As soon as possible after changing a wheel, you should have the wheel nuts tightened with a torque wrench to 125 Nm (Newton metres) evenly in the sequence shown. Wheel nuts which have not been properly tightened could eventually allow the wheel to come off while the vehicle is moving!
- Also have the new wheel balanced on the vehicle.

TOWING A DISABLED VEHICLE

Emergency towing

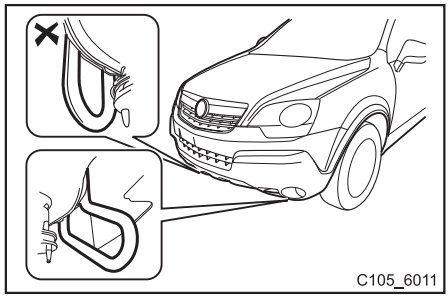
Proper lifting or towing equipment is necessary when lifting or towing the vehicle to prevent damage. State and local laws must be followed. In an emergency, the vehicle may be towed on all four wheels for short distances only in the following manner:

1. Fit the towing equipment to the front towing eye located under the front bumper on the passengers side. Do not attach towing equipment to the bumpers or brackets, suspension or cross members.
2. Place the transmission in neutral (**N**) and release the park brake.
3. Turn the ignition key to the accessories (**ACC**) position. This frees the steering lock and allows the correct operation of windscreen wipers and turn signals.
4. For safety and to prevent damage to the vehicle, avoid jerky movements and drive slowly during towing operations.
5. Remember that power assist for brakes and power steering are not available when the engine is switched off. The brakes and steering still function, but require greater effort.
6. To prevent exhaust fumes from the towing vehicle entering the towed vehicle, close the windows and move heating and ventilation controls to the 'recirculate' position.
7. Vehicles fitted with automatic transmissions must not be towed for more than 55 km or over 55 km/h.
8. Vehicles with damaged transmissions must not be towed.
9. Only the driver should be inside a towed vehicle.

Front towing eye

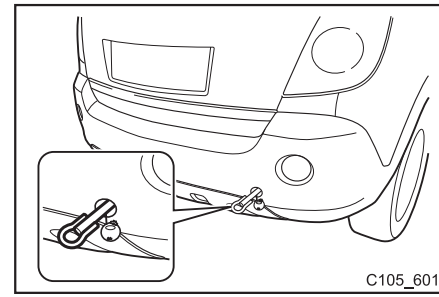
The front towing eye is provided under the front bumper. A driver must be in the vehicle to steer it and operate the brakes. Towing in this manner may be done only on hard-surfaced roads for a short distance and at low speeds. Also, the wheels, axles, drive train, steering and brakes must be in good condition.

WARNING
Do not use the front or rear tie-down hooks for towing.



TOWING A DISABLED VEHICLE cont.

Rear towing eye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When towing another vehicle, use the rear towing eye. It should be used only in an emergency situation.

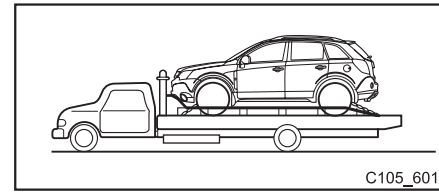
To use the rear towing eye attachment, use the following procedure:

1. Locate the rear towing eye attachment in the compartment under the rear luggage area floor cover.
2. Open the cover plate on the bumper bar and screw the towing eye attachment firmly into place.
3. When using the rear towing eye attachment always apply force in a straight direction with respect to the towing eye. Do not apply force from any side direction.

WARNING
Do not use the front or rear tie-down hooks for towing.

Using a flat-bed tow truck

A flat-bed tow truck is the best method of towing the vehicle to avoid damage.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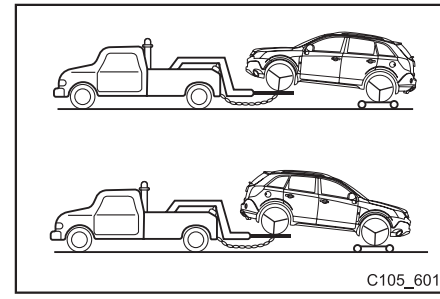
Using a standard tow truck

If a flat-bed tow truck is not available a standard tow truck using a towing dolly to prevent the front or rear wheels from contacting the road will be suitable.

WARNING
If the vehicle is towed with the front or rear wheels contacting the road, the vehicles drive system could be severely damaged.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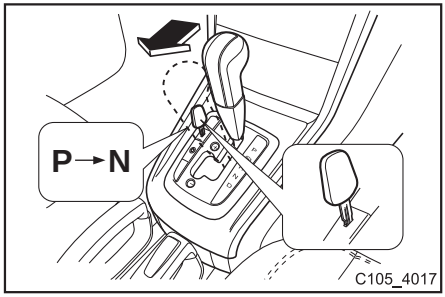
TOWING A DISABLED VEHICLE cont.

SHIFT LOCK CONTROL SYSTEM* (AUTOMATIC TRANSMISSION)



Your vehicle has a Brake-Transmission Shift Interlock (BTSI) system. Before shifting from **P** (park), the ignition must be in the **ON** position and the brake pedal must be applied.

If the system does not respond to the above procedure and the shift lever can not be moved, use the following procedure:

1. Switch off the ignition (LOCK position) and remove the key.
2. Apply and hold the brake pedal.
3. Remove the cap from the transmission shift lock slot.
4. Insert and press the ignition key into the transmission shift lock slot.
5. Shift the gear lever to **N** (neutral).
6. Remove the key from the slot.
7. Start the engine and shift the transmission into the desired position.
8. Reinstall the cap.
9. Refer to your Holden Dealer as soon as possible.

Note

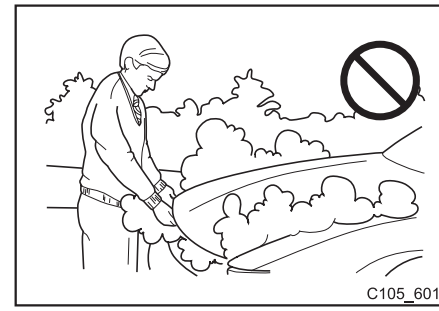
- If the shift lever is returned to the **P** (park) position, the above procedure will need to be repeated to shift the lever into **N** (neutral).
- The above procedure will need to be carried out if the vehicle has a flat battery and requires towing.

ENGINE OVERHEATING

WARNING

- Immediate action is required if the engine overheats. This can be indicated by the temperature gauge needle moving to the red zone, by steam escaping from under the bonnet, a loss of power or a loud knocking or pinging noise.
- Continued driving even for a short time could result in a fire or vehicle damage.

If the coolant temperature gauge needle should move to the **H** position and remain there for more than 30 seconds, pull over to the side of the road. Leave the engine idling while you step out of the vehicle to check if the cooling fan is working.



WARNING

- Do not open the bonnet if you can see or hear steam or coolant escaping from the engine compartment. Wait until no steam or coolant can be seen or heard before opening the bonnet.
- Do not remove the cooling system cap if the engine and radiator are still hot. Scalding fluid and steam can be blown out under pressure which could cause serious burns.

If the fan is working and the temperature gauge needle has not returned to its normal position within a few minutes, stop the engine and remove the ignition key.

Look for leaks from the radiator hoses and connections, heater hoses and connections, radiator and water pump and fan belt. Take care when checking all of these areas as they may still be hot.

If you find a major leak or other problems that may have caused the engine to overheat, do not run the engine until these problems have been corrected.

If you do not find anything wrong, you should check the engine coolant level in the radiator reservoir tank. Refer to *Under bonnet checks* in chapter 7 for the reservoir location.

ENGINE OVERHEATING cont.

If you see or hear steam coming from the engine, stop and switch the engine off. Do not open the bonnet until the engine has cooled down.

If the temperature gauge is high with no sign of steam:

1. Pull over and stop the vehicle as soon as it is safe to do so.
2. Switch off your air conditioner.
3. Run the engine at idle speed for about 3 minutes.

The engine cooling fan should be running.

If the fan is not operating and steam is visible:

1. Switch off the engine.
2. Move away from the vehicle without opening the bonnet.
3. Let the engine cool down.
4. When steam is no longer visible, carefully open the bonnet.
5. Have the vehicle serviced as soon as possible.

If the fan is operating with no sign of steam:

1. Open the bonnet.
2. Let the engine idle until it is cool.
3. Check the coolant level.

If the fan is operating but the engine temperature does not fall:

1. Switch off the engine.
2. Open the bonnet.
3. Let the engine cool down.
4. Check the coolant level.

If the coolant level is low, there may be a leak in the cooling system:

Check for leaks in the following areas:

1. Radiator
2. Radiator hoses
3. Radiator connections
4. Heater hoses
5. Heater hose connections
6. Water pump.

WARNING
Do not remove the cooling system cap if the engine and radiator are still hot. Scalding fluid and steam can be blown out under pressure which could cause serious burns.

ENGINE OVERHEATING cont.

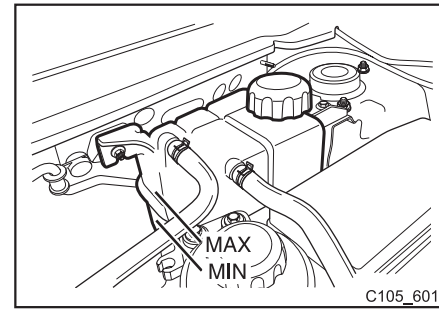
WARNING
The cooling system is pressurised, so to avoid injury please read all of the following instructions before attempting to add coolant.

Without undoing the coolant reservoir cap, look at the level of the coolant in the see-through coolant reservoir.

When the engine is hot the level should be above the MIN mark.

If the level is at or below the MIN mark when the engine is hot, coolant will need to be added as follows:

- Allow the engine to cool a little.
- The coolant reservoir is pressurised, so cover the cap with a thick cloth. Remove the cap very slowly to allow any pressure to escape.
- If water is added it should be clean.
- Top up the coolant reservoir to the MAX mark while the engine is idling.
- Replace the coolant reservoir cap.



WARNING
Do not spill coolant on the vehicle's exterior surfaces. It can damage the paintwork. If you do, wash it off immediately.

If after taking one or more of the above actions the temperature gauge no longer indicates an overheat condition you can resume driving at a reduced speed. Return to normal driving after 10 minutes if the temperature gauge does not again show an overheat condition. If overheating occurs again you should have the vehicle attended to, as soon as possible, by a Holden Dealer.

The engine may temporarily operate at high temperatures during demanding operating conditions, especially on hot days, including:

- Climbing a long hill.
- Stopping immediately after high speed driving.
- Idling for long periods in traffic.
- Towing a heavily laden trailer.

Note It may help to switch off the air conditioner in these conditions.

Refer to *Under bonnet checks* in chapter 7 for instructions to help protect your cooling system from overheating.

FLAT BATTERY

WARNING

- Do not push start or tow start your vehicle. If unburnt fuel were to reach the catalytic converter and ignite, the converter could overheat or be destroyed by backfire. Therefore, if the battery is flat, you can jump start, but not push start your vehicle.
- To protect your vehicle's electrical system never disconnect the battery when the engine is running. Never charge the battery while it is still connected to the vehicle, first disconnect the negative cable, then the positive cable. The polarity of the battery, i.e. the connections for the positive and negative cables, must not be interchanged when reconnecting. First connect the positive cable, then the negative cable.

If your vehicle does not start due to a discharged battery, it can often be started by using energy from another battery, a procedure called jump starting.

Please read the following procedure before attempting to jump start your vehicle.

However, if after reading the following procedure you are still unsure about jump starting we strongly recommend for your safety and to avoid damage to your vehicle that you seek the assistance of a suitably trained service technician.

Jump starting

WARNING

Batteries produce explosive gases, contain corrosive acids and supply levels of electrical current high enough to cause burns. Therefore, adhere to the following when working near a battery:

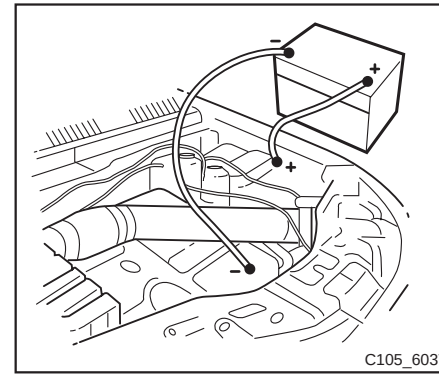
- Do not use open flames or sparks near the battery.
- Do not smoke near the battery.
- Wear eye protection such as safety glasses and avoid leaning over the battery.
- Battery acid is corrosive. If it gets on your skin, wash with plenty of water immediately. If it gets in your eyes you should not only flush with lots of water but should also seek medical help. Battery acid also damages paint and fabrics. To minimise damage, wash off immediately.
- Be sure any batteries that have filler caps are properly filled with fluid.
- Remove rings, metal watch bands and other metal jewellery before working around the battery.
- Never use a quick charger to start the engine.
- If you have a telephone fitted to the vehicle, you should remove the fuse for the telephone before jump starting. Remember to replace the fuse afterwards.
- To prevent damage to the audio system, switch it off before jump starting the vehicle.

FLAT BATTERY cont.

Jump starting

1. The battery in your vehicle has a negative earth and a 12 volt rating. The battery in the other vehicle must also have a negative earth and a 12 volt rating.
2. Position the two vehicles so they are not touching, apply the park brakes, place the shift lever in the park (**P**) position. Turn the ignition switch to the **LOCK** position and switch off all the lights and accessories in both vehicles, except the hazard warning flasher or any lights needed for the work area.
3. Attach one end of the red jumper lead to the positive terminal of the booster battery (identified by a red colour, **+** or (**P**) and the other end of the red jumper lead to the positive terminal of the flat battery.
4. Attach one end of the black jumper lead to the negative terminal of the booster battery (identified by a black colour, **–** or **N**) and the other end of the black jumper lead to a solid stationary, metallic point on the engine of the vehicle with the flat battery.

   Note Do not connect directly to the negative terminal of the battery, as this could cause sparks.



5. When making all connections ensure the jumper lead clamps do not touch each other. Also, ensure the jumper leads are not on or near pulleys, fans or other points that will move when the engine is started.
6. Start the engine in the assisting vehicle and run the engine at a moderate speed. Then start the engine with the flat battery. Attempts to start the engine with the flat battery should be made at one minute intervals and should not last longer than 15 seconds.
7. After starting, allow both engines to idle for approximately 3 minutes with the leads still connected.
8. Leave the engine running while removing the jumper leads - in the exact reverse order they were installed. While removing each clamp, ensure it does not touch any other metal while the other end remains attached.

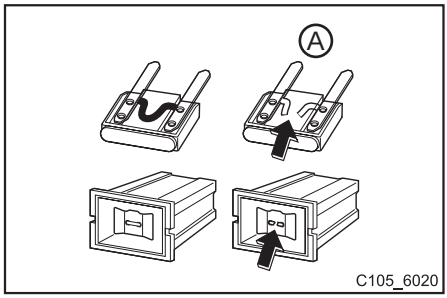
FUSE REPLACEMENT

Fuse boxes

There are two fuse boxes; one is on the left-hand side of the driver's side foot well, and the other is located toward the rear of the engine compartment next to the coolant reservoir.

Spare fuses and a fuse extractor are located in the engine compartment fuse box.

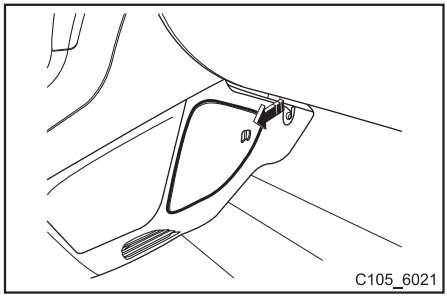
To determine whether or not a fuse is blown, it is necessary to pull out the suspect fuse and examine the wire in the fuse. A blown fuse can be recognised by its melted wire. If a fuse blows twice in a row a fault is indicated. The cause should be located and rectified by a Holden Dealer.



Foot well fuses

To open the fuse cover on the left-hand side of the drivers foot well, open the driver's side door, pull the top of the cover outward.

Always ensure the cover is in place after use. The fuse amperage and designation is shown on the inside of the fuse cover.



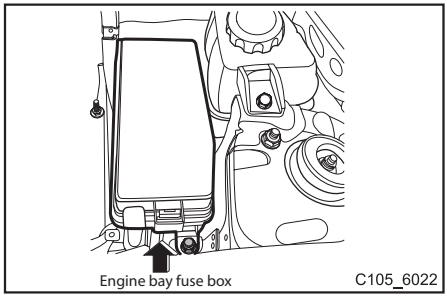
Fuse box in engine compartment

This fuse box is located on the passenger side of the engine compartment, it contains circuit fuses, main fuses and relays.

To remove the cover, press the catch on the side of the fuse box toward the engine and release the two tabs at the opposite side.

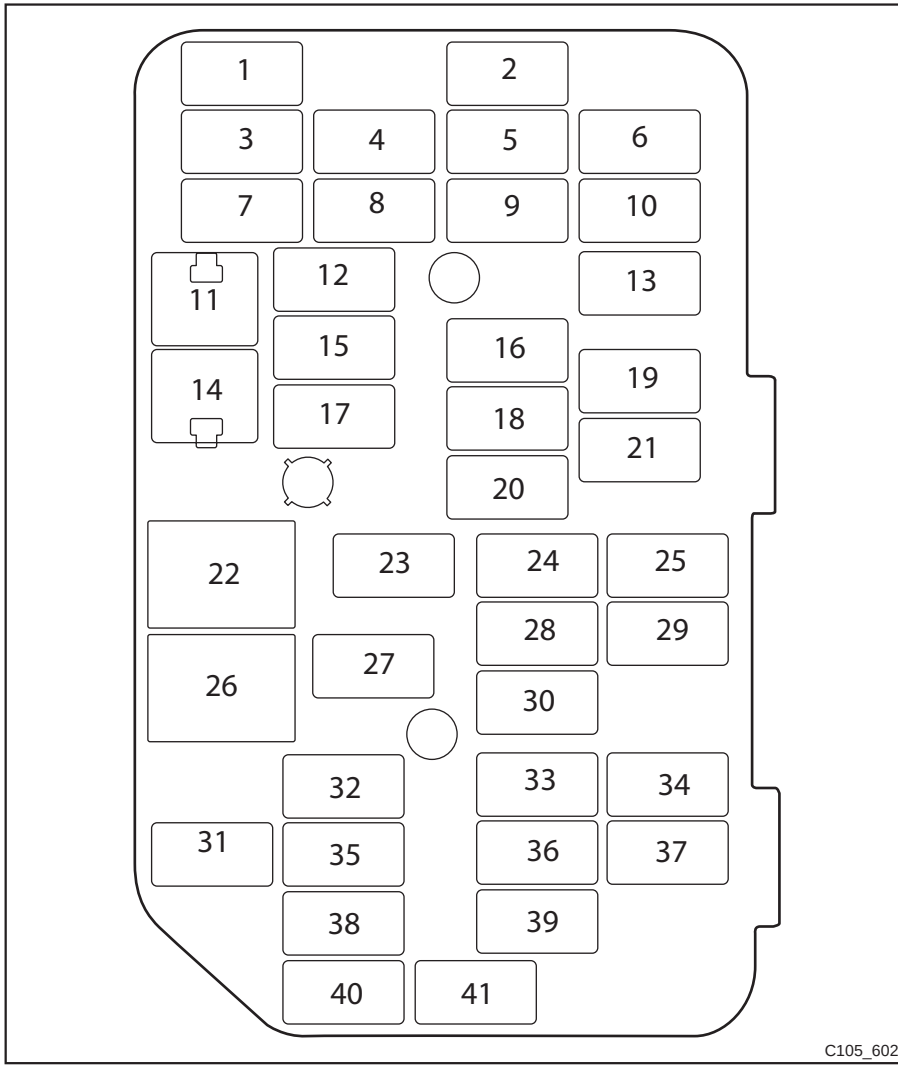
Always ensure the cover is correctly fitted after replacing or inspecting fuses.

The fuses amperage are shown on the inside of the fuse cover.



FUSE REPLACEMENT cont.

Driver footwell fuse panel



FUSE REPLACEMENT cont.

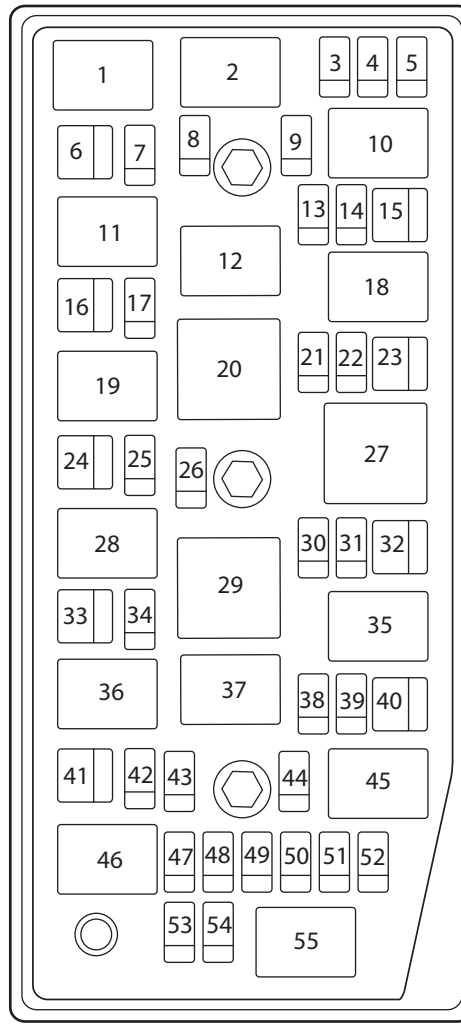
No	Allocation	AMP's	No	Allocation	AMP's
1	Front mirror*	10A	**22**	Relay ACC/RAP	
2	Door Lock	20A	**23**	Lift glass*	10A
3	Nav	10A	**24**	Air conditioning	15A
4	Front door lock	15A	**25**	Air conditioning	10A
5	BCM (VB6)	15A	**26**	Relay run/crank	
6	AP01	20A	**27**	OSRVM HT	15A
7	Cigar	20A	**28**	BCM (VB2)	20A
8	AP02	20A	**29**	SSPS*	10A
9	BCM (VB3)	15A	**30**	BCM (VB7)	15A
10	Heat/Mat*	20A	**31**	Clock	10A
11	Passenger power window	20A	**32**	Instrument panel	10A
12	TCM*	15A	**33**	Ignition switch	2A
13	Audio	15A	**34**	BCM (VB1)	10A
14	Driver's power window	20A	**35**	Ignition 1	10A
15	Engine	15A	**36**	Rear fog*	10A
16	BCM (VB4)	15A	**37**	CTD Horn*	10A
17	XBCM*	10A	**38**	Airbag	10A
18	BCM (VB5)	15A	**39**	Airbag	10A
19	Trailer*	10A	**40**	WHL S/W*	2A
20	RR CLS	10A	**41**	Front washer	10A
21	PKLP-RH	10A			

FUSE REPLACEMENT cont.

ENGINE COMPARTMENT

Relays

Relays are also contained in this fuse box; their location in the fuse box and their function is indicated on the inside of the fuse box cover.



C105_6024

FUSE REPLACEMENT cont.

No	Allocation	AMP	No	Allocation	AMP
1	Starter relay		**29**	Run relay	
2	Main relay		**30**	Anti theft	15A
3	ECM	20A	**31**	Sun roof	20A
4	Engine 2	15A	**32**	Accessory/Ignition	40A
5	Engine 1	15A	**33**	Battery	60A
6	Starter	20A	**34**	Power seat	30A
7	Main	10A	**35**	Defog relay	
8	A/C compressor	10A	**36**	Front defog relay	
9	Engine 3	15A	**37**	Park lamp relay	
10	Auxiliary fan relay		**38**	H/light Low RH	15A
11	A/C compressor relay		**39**	H/light Low LH	15A
12	Main fan relay		**40**	Defog	30A
13	AWD	15A	**41**	Rear wiper	20A
14	Fuel	15A	**42**	H/light High	15A
15	Main fan	30A	**43**	Front fog	15A
16	ABS	40A	**44**	Park lamp LH	10A
17	ABS	20A	**45**	H/light Low relay	
18	Fuel relay		**46**	H/light High relay	
19	Horn relay		**47**	Spare	20A
20	Fan control relay		**48**	Spare	25A
21	Spare	20A	**49**	Park lamp RH	10A
22	Stop	15A	**50**	TCM	15A
23	Auxiliary fan	30A	**51**	H/light washer	20A
24	Run	40A	**52**	Spare	
25	Wiper	25A	**53**	Spare	10A
26	Horn	15A	**54**	Spare	15A
27	Wiper speed relay		**55**	H/light washer relay	
28	Wiper relay				

WARNING
When replacing a fuse, ensure the replacement fuse is of the specified amperage. Never install a wire or similar as it could damage electrical components and cause a fire.

BULB REPLACEMENT

Note

- If unsure of the bulb replacement process for any of the lamps, please have the work carried out by a suitably trained service technician.
- Headlamp aiming is a safety item. It is recommended that you have it carried out by your Holden Dealer.

NOTES WHEN REPLACING BULBS

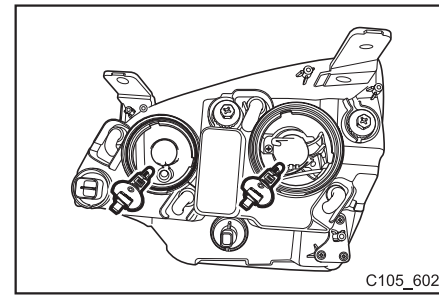
- Switch the ignition off (LOCK position) and remove the key.
- Switch off the related switch.
- It is important to fit only bulbs of the specified wattage.
- Do not touch bulbs or reflectors with bare hands. Greasy fingers cause stains which evaporate, eventually resulting in a dull reflector. Grease spots on Halogen bulbs will, within a short time, lead to bulb failure. Clean stained bulbs with methylated spirits.

BULBS TO BE CHANGED BY A HOLDEN DEALER

- Front fog lamps.
- Rear high level stop lamp.

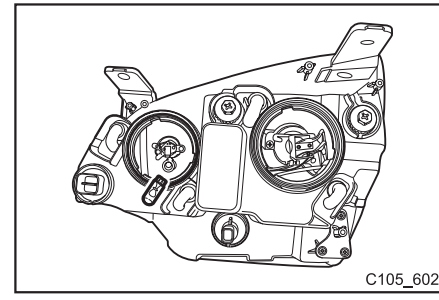
Headlamps (55 W)

1. Open the bonnet.
2. Remove the scrivets from the upper radiator cover and remove.
3. Remove the bolts securing the headlamp assembly and carefully remove the head lamp.
4. Disconnect the headlight connectors.
5. Remove the cap covering the head lamp bulb.
6. Release the spring retaining the bulb.
7. Remove the bulb and replace.
8. Reverse the steps to reinstall the head lamp assembly.


C105_6025

Parking lamps (5 W)

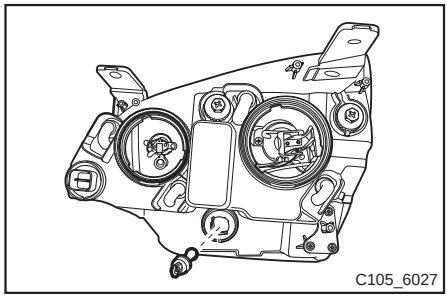
1. Open the bonnet.
2. Remove the head lamp assembly. Refer to *Headlamps* above.
3. Remove the cap covering the parking lamp bulb.
4. Pull out the parking lamp bulb assembly located next to the head lamp bulb.
5. Pull the bulb straight out of the bulb holder.
6. Reverse the steps to reinstall the head lamp assembly.


C105_6026

BULB REPLACEMENT cont.

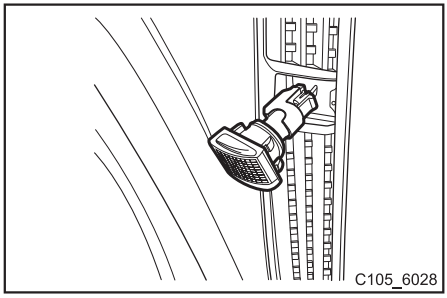
Front turn signal lamps (21 W)

1. Open the bonnet.
2. Remove the head lamp assembly. Refer to *Headlamps* previously in this chapter.
3. Rotate the front turn signal bulb holder anticlockwise and pull it out of the lamp housing.
4. Press the bulb inward and rotate it anticlockwise to remove it from the bulb holder.
5. Install a new bulb into the holder by pressing it in and rotating it clockwise.
6. Install the holder into the lamp housing by rotating it clockwise.
7. Reverse the steps to reinstall the head lamp assembly.



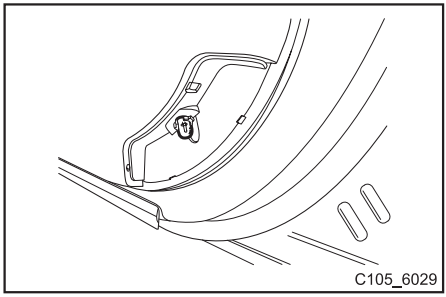
Side turn signal lamps (5 W)

1. Using a flat-bladed screwdriver, carefully pry the side turn signal lamp assembly away from the fender.
2. Rotate the bulb holder anticlockwise.
3. Remove the bulb from the lamp housing by pulling the bulb straight out of the holder.
4. Push the replacement bulb into the bulb holder and rotate the bulb clockwise.
5. Push the side turn signal lamp assembly back into its original position ensuring it is securely fastened.



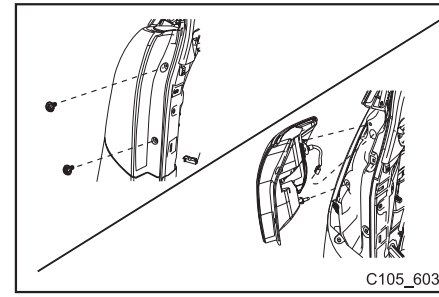
Front door step lamp (5 W)

1. Using a flat-bladed screwdriver, carefully pry the lamp lens away from the front door trim.
2. Pull the bulb straight out of the bulb holder and install the replacement bulb.
3. Refit the lamp lens ensuring it is securely fastened.



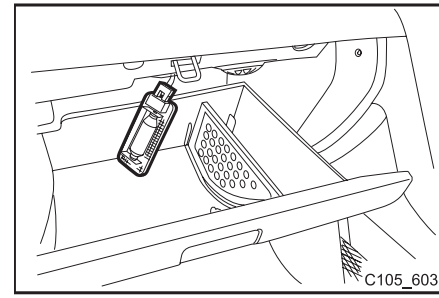
BULB REPLACEMENT cont.

Rear tail lamps



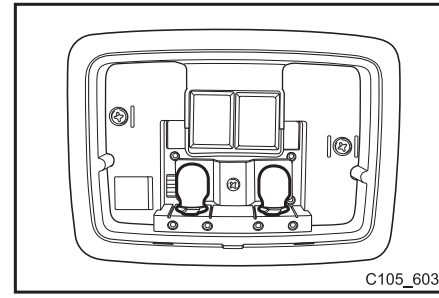
1. Open the tailgate.
2. Remove the two screws and the lamp assembly.
3. Remove the bulb holder by rotating it anticlockwise.
4. Push the bulb inward and rotate it anticlockwise.
5. Insert the replacement bulb into the holder and rotate it clockwise.
6. Replace the bulb holder into the lamp housing and rotate it clockwise to secure.
7. Refit the lamp assembly into the vehicle securing with the two screws.
   - Reverse (16 W)
   - Tail (5 W)
   - Brake (21 W)
   - Rear turn signal (21 W)

Glovebox lamp (10 W)



1. Open the glovebox.
2. Using a flat-bladed screwdriver, carefully unclip the lamp assembly away from the top of the glovebox.
3. Remove the bulb and install the replacement.
4. Refit the lamp assembly.

Interior and map lamps (10 W)

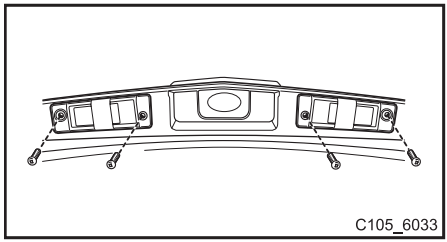


1. Using a flat-bladed screwdriver, carefully pry the lamp lens away from the housing.
2. Remove the bulb and install the replacement.
3. Refit the lamp lens.

BULB REPLACEMENT cont.

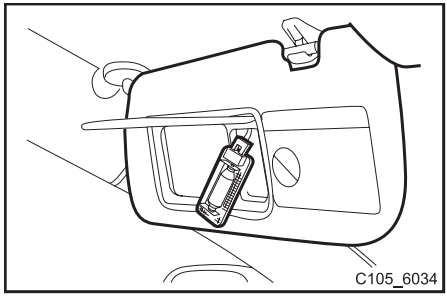
Licence plate lamps (5 W)

1. Remove the two screws and the lamp lens.
2. Rotate the bulb holder anticlockwise and remove it from the housing.
3. Pull the bulb straight out of the bulb holder and install the replacement bulb.
4. Rotate the bulb holder clockwise to reinstall it into the lamp housing.
5. Refit the lamp lens, securing with the two screws.



Vanity mirror lamp

1. Using a flat-bladed screwdriver, carefully unclip the lamp assembly away from the vanity mirror housing.
2. Remove the bulb and install the replacement.
3. Refit the lamp assembly.



NOTES

CHAPTER 7

Weekly checks

Page

Exterior checks 7-2
Under bonnet checks 7-6
- Under bonnet layout 7-6
- Engine oil 7-7
- Transmission fluid 7-9
- Engine coolant 7-10
- Brake fluid* 7-11
- Clutch fluid* 7-12
- Power steering fluid 7-13
- Washer fluid 7-13

Battery 7-14

*The asterisk signifies equipment options not in all vehicles, model variants, engine options, optional equipment and Genuine Holden Accessories (and Parts).

EXTERIOR CHECKS

MISCELLANEOUS CHECKS

As well as taking your vehicle to be serviced (refer to the Service/warranty booklet) there are a few simple, weekly checks the owner (or nominee) is recommended to make. These are shown on the following pages.

WARNING

- The engine cooling fan can start working unexpectedly, even when the engine is not running. To avoid injury from the fan, ensure the ignition switch is in the LOCK position, so the fan can not start operating.
- Electronic ignition systems have high ignition voltage. Do not touch the ignition system; this could be highly dangerous.

The following checks should also be regularly done to ensure the safe operation of your vehicle:

- All exterior lights are working and their appropriate interior indicators illuminate.
- Mirrors and glass are clean and not scratched.
- Aim of water on the windscreen is satisfactory.
- Condition of the wipers is satisfactory.
- The demister operates.
- The horn works.
- Condition and operation of all the seat belts. Check if the buckles are clean and operating correctly. Remember that seat belts must never be worn twisted.

EXTERIOR CHECKS cont.

TYRES

Tyre air pressure

Weekly checking of the air pressure of your tyres (including the spare) ensures your safety, as well as reduces fuel consumption and increases the life of your tyres. See the tyre placard located on the pillar below the driver's door latch for the recommended tyre pressures.

For constant long distance or rough road driving, daily checking is recommended.

If the vehicle is heavily loaded, the recommended pressure for the tyres is increased. As the tyres are operating under greater load, the weekly air pressure check becomes even more important.

Tyre inflation pressure increases when the tyres have been driven more than 2 km. Therefore, the pressure should be checked when the tyres have been stationary for over three hours. If they must be checked immediately after driving, increase the pressure shown on the placard by 10 % relative to the cold tyre inflation pressure.

The inflation pressure in the tyres should be increased according to the load on the vehicle. Therefore, if the vehicle is loaded to half the maximum load shown on the compliance label, then the tyres should be inflated half way between the minimum and maximum pressures given on the tyre placard.

Always use a tyre pressure gauge to check the tyres inflation; simply looking at the tyres is not sufficient.

If the pressure is too low, this can result in considerable tyre warm-up and internal damage, leading to tread separation and even to tyre blowout at high speeds. If the pressure is too high, this can result in reduced traction, increased risk of tyre blowout and poor tyre wear.

Remember to replace any valve dust caps or extensions, as this stops dirt and moisture from fouling the valves. When checking the tyre air pressure, take a look at the condition of the tyre tread and inspect for stones or abnormal wear.

Tyre condition and rim condition

Driving over sharp edges can lead to hidden tyre damage and rim damage, which can lead to tyre blowout. Drive over edges slowly and at right angles, if possible.

When parking, ensure the tyres are not pressed against the edge of the curb.

Check the tyres regularly for damage, stones, punctures, cuts, cracks, bulges etc. Check the rims for damage. Consult a Holden Dealer, if in doubt.

EXTERIOR CHECKS cont.

Alignment and balance

Improper wheel alignment can cause the tyres to wear faster and to wear unevenly. It can also cause the vehicle to pull to the left or right.

Out-of-balance wheels and tyres can cause annoying vibration and uneven tyre wear. If you suspect either of the above problems exist, have a wheel alignment and balance check carried out by your Holden Dealer.

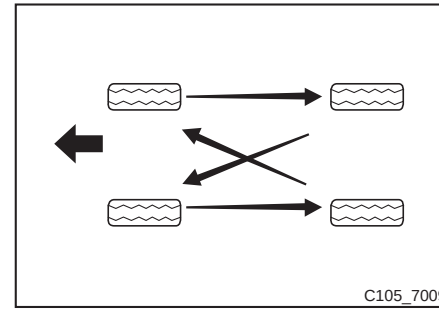
Tyre rotation

Front and rear tyres perform different jobs and can wear differently depending on the types of roads driven, your driving habits, wheel alignment, balance, tyre pressures, etc.

Check the tread depth regularly. If the front tyres have more wear than the rear tyres, have both front wheels rotated with the rear wheels so the tyres with the deeper tread are at the front.

Follow the diagram for the correct rotation pattern.

If the wheels are rotated it is recommended to check the balance at the same time.



EXTERIOR CHECKS cont.

Replacement and repair

Replacing your factory fitted wheels and tyres with non standard wheels and tyres may affect your new vehicle warranty as well as your insurance policy. Refer tyre placard for tyre size and load rating. Using a different size or type of tyre may affect ride, handling, speedometer, vehicle ground clearance, tyre clearance or snow chain clearance.

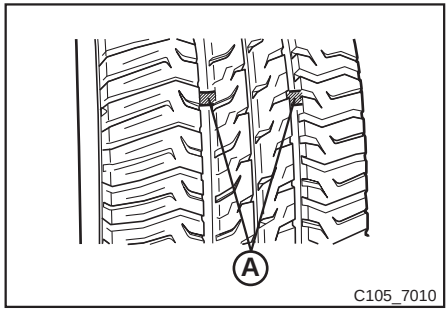
Take care when using tyres with heavy treads, including tyres made for better grip in the wet. At sustained high speeds, this type of tyre will run at higher temperatures than standard tyres and consequently should only be operated within the limits recommended by the manufacturer. Any doubts about the tyres on your vehicle should be referred to your Holden Dealer.

New tyres should be fitted in pairs to the front. If replacing only one tyre, it should be paired on the same axle with the least worn of the other three.

The tyres have tread wear indicators (A) which tell you when a tyre has 1.5 mm or less of tread left.

You should replace your tyres when:

- The tyres are worn to the point where the tread indicators appear, or the cord or fabric is showing. The tyres originally fitted to your vehicle have built-in tread indicators which show up when the tyres are worn.
- The tread or sidewall is cut, split, or cracked deep enough to expose the cord or fabric.
- The tyre has a bump or bulge in it, indicating some kind of internal damage.



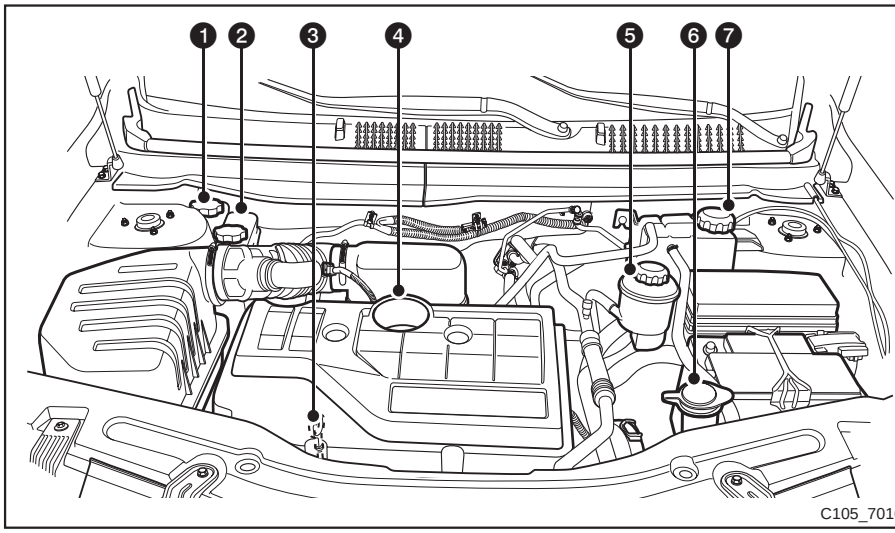
- The tyre has a puncture, cut or other damage which can not be repaired because of the size or location of the damage.

WARNING

- The use of tyres that are a different size or construction i.e. mud or snow tyres, may adversely affect the ESP® system.
- Do not attempt to drive on the flat tyre more than is necessary to stop safely. Driving even a short distance can damage the tyre and wheel beyond repair. Tyres which have been repaired or retreaded can not be driven safely at high speeds. Therefore, their use is not recommended.

UNDER BONNET CHECKS

UNDER BONNET LAYOUT – 2.4L 4 CYLINDER



❶ Clutch fluid reservoir* 7-12
❷ Brake fluid reservoir* 7-11
❸ Engine oil level dipstick 7-7
❹ Engine oil filler cap 7-7
❺ Power steering fluid reservoir 7-13
❻ Washer fluid reservoir 7-13
❼ Coolant reservoir 7-10

UNDER BONNET CHECKS cont.

ENGINE OIL

Engine oil must be kept at correct levels to help ensure proper lubrication of the vehicle's engine. Check the oil level at regular intervals, such as when refuelling. If the oil pressure warning light comes on, you must check the oil level immediately, or risk causing damage to the engine. Refer to *Warning/reminder indications* in chapter 1A.

Engine oil level

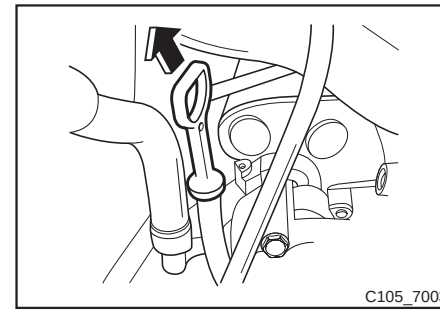
Check the oil level while the vehicle is parked on level ground, with the engine switched off and at normal operating temperature.

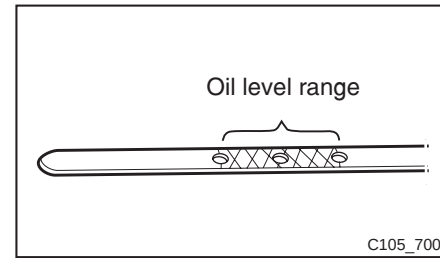
Before checking the oil level, wait a few minutes after switching the engine off, to allow the oil to settle.

1. Remove the oil dipstick from the oil level tube.
2. Wipe the dipstick clean.
3. Insert the dipstick back into the oil tube as far as it will go.
4. Wait for a few seconds before again removing the dipstick.

The oil level should be maintained between the marks, neither going above the upper mark nor under the lower mark.

Note Remember to insert the dipstick firmly after taking the reading.

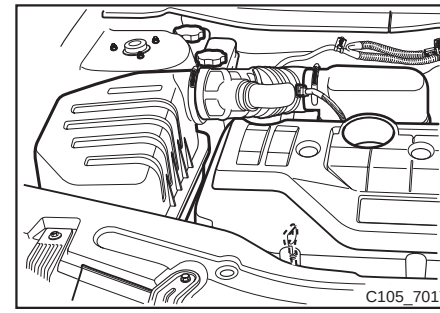




To add engine oil

Use the correct oil for your vehicle. Refer to *Specifications* in chapter 8.

1. Remove the engine oil cap.
2. Add the required amount of oil.
3. Wait a few minutes for the oil to settle, then check the oil level again. When the oil level is correct, replace the oil cap and dipstick, and clean up any spilt oil.



Note Non-detergent and other low quality oils are specifically not recommended. The use of break-in oil, tune up compounds, friction reducing compounds and other supplemental additives are not recommended. Their use will increase costs, may be detrimental to the operation of your vehicle and may void your New Vehicle Warranty, to the extent that Holden considers the non-recommended fluid to have affected the specifications or quality of your vehicle.

UNDER BONNET CHECKS cont.

ENGINE OIL CONSUMPTION

Every internal combustion engine uses a certain amount of oil, especially when running-in. The engine is dependant on oil for lubricating the cylinder walls, pistons, rings and valve stems. A thin film of oil is left on the cylinder walls, some of which is carried into the combustion chamber and burnt during the combustion process. This also applies to the film of oil on the valve stems which is drawn into the combustion chamber and burnt.

There are several other factors that contribute to the rate of oil consumption in your engine:

- Worn pistons, rings, valve stems and guides.
- The way in which the vehicle is operated.
- The quality and grade of oil.
- The oil level, and dilution of the oil.

Operation of the vehicle

High speed driving and heavy towing increases engine temperature, which lowers oil viscosity, causing more oil to reach the combustion chamber and get burnt away.

Quality and grade of oil

Oil viscosity is a significant factor in oil consumption. If you use an oil which is too thin (low viscosity) your oil consumption will increase. Use only the recommended grades of oil. Refer to *Specifications* in chapter 8.

Oil level

Maintaining a proper oil level is also an important factor in controlling oil consumption. An over full engine will splash oil onto the cylinder walls in quantities greater than the piston rings can control. This excess oil will be drawn into the combustion chamber and burnt, or may result in aeration of oil in the sump causing damage to the engine.

Dilution

Probably the most prevalent complaint of oil consumption comes from the driver whose vehicle is frequently driven at below normal operating temperatures. The oil becomes diluted by fuel and moisture which settles in the oil pan and may even raise the oil level creating a false reading on the oil level dipstick. For example, in a vehicle that has accumulated 1,500 km of short distance or intermittent city operation and has consumed a normal amount of oil, the level may not have dropped from the full mark, due to dilution. If this vehicle is driven for some distance at highway speeds on a warm day, the dilution elements evaporate, lowering the oil level and the motorist assumes the oil lost has been consumed in the highway operation.

If, after taking into account the above factors, you are still concerned that your engine has excessive oil consumption then you should discuss the situation with a Holden Dealer. Remember that an engine's oil consumption should not be judged until it has run at least 10,000 km.

UNDER BONNET CHECKS cont.

TRANSMISSION

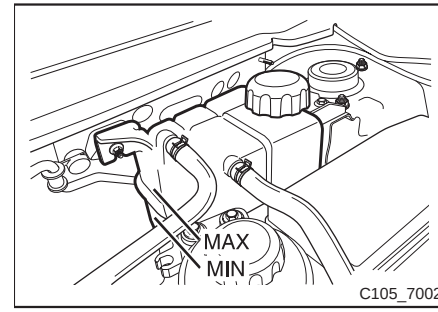
Fluid level

The fluid level for transmission will be checked for you when your vehicle is taken to your Holden Dealer for servicing. Refer to the Service/warranty booklet.

Note The transmission fluid level does not require checking by the driver in between these scheduled services.

UNDER BONNET CHECKS cont.

ENGINE COOLANT



Engine coolant level

The level of the coolant should be checked weekly. This is simply a matter of looking at the level in the plastic container, called the coolant reservoir.

Check the level of the coolant and replenish the coolant reservoir as necessary. When the engine is cool, if the level of coolant in the reservoir is found to be lower than the MIN line, check the cooling system for leaks, then replenish to bring the level up to the MAX line.

WARNING

- Do not over fill the coolant reservoir.
- Only use specified coolant. Refer to *Specifications* in chapter 8. Do not mix different coolants as this may damage the engine cooling system.
- Remove the coolant reservoir filler cap only.
- Always check the coolant level when the engine is cold. Steam and scalding liquids from a hot cooling system can blow out and cause serious burns.
- Do not spill coolant on the vehicle's exterior surfaces. It can damage the paintwork. If you do, wash it off immediately.

To add engine coolant

If the coolant reservoir requires topping up, first pre-mix a solution of 50 % coolant and 50 % water. Refer to *Specifications* in chapter 8.

Ensure the ignition is switched off.

Undo the cap on the top of the coolant reservoir, add the pre-mixed solution and secure the cap.

Failure to use the coolant meeting Holden's specification or maintaining the specified concentration may result in voiding your warranty.

In emergency situations, plain water may be used temporarily until the correct coolant is obtained as soon as possible from the nearest Holden Dealer.

The specified coolant works in three ways: it contains special corrosion inhibitors, it helps the cooling system in hot weather by increasing the boiling point and it protects against freezing down to -30 °C, provided the correct concentration is maintained.

If you regularly have to top up the cooling system you should contact your Holden Dealer.

WARNING

Corrosion inhibitors and antifreeze fluids are poisonous. Use extreme care when handling. If swallowed seek medical attention.

If the engine overheats, refer to *Engine overheating* in chapter 6.

UNDER BONNET CHECKS cont.

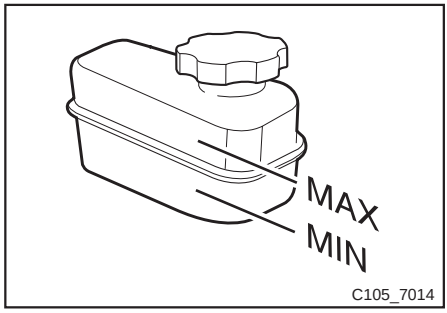
*BRAKE FLUID**

WARNING
Do not let brake fluid contact your skin or eyes. If you do get it in your eyes or on your skin, wash the affected skin thoroughly with soap and water, or flush eyes immediately with water and seek medical attention.

Do not spill brake fluid on the vehicle's exterior surfaces. It can damage the paintwork. If you do, wash it off immediately.

Brake fluid level

Check the brake fluid level in the brake fluid reservoir weekly.



Checking the brake fluid level

The fluid level is visible through the brake fluid reservoir. Refer to *Under bonnet layout* previously in this chapter for the brake fluid reservoir location.

Maintain the level between the **MIN** and **MAX** markings.

If the fluid is between these levels, do not remove the reservoir cap, as brake fluid exposed to the atmosphere will quickly absorb moisture.

Adding brake fluid

1. Ensure that the ignition is switched off.
2. Wipe the sides of the cap clean and turn anticlockwise to remove.
3. Top up with heavy duty brake fluid which meets Holden specifications. Refer to *Specifications* in chapter 8 for the correct specification.

WARNING
Use only new brake fluid. Use of old, used or inferior brake fluid may endanger the functioning of the brake system.

4. Secure the cap and clean up any spilt fluid.

   Note If the brake fluid reservoir requires constant topping up it could indicate that a fault exists. Contact your Holden Dealer immediately.

UNDER BONNET CHECKS cont.

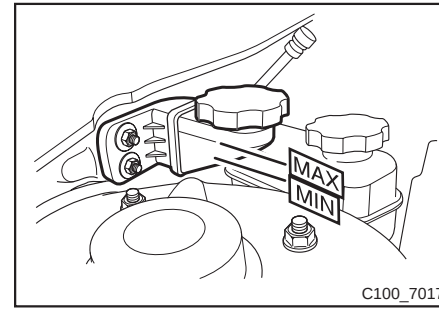
*CLUTCH FLUID**

WARNING
Do not let brake fluid contact your skin or eyes. If you do get it in your eyes or on your skin, wash the affected skin thoroughly with soap and water, or flush eyes immediately with water and seek medical attention.

Do not spill brake fluid on the vehicle's exterior surfaces. It can damage the paintwork. If you do, wash it off immediately.

Clutch fluid level

Check the clutch fluid level in the clutch fluid reservoir weekly.



Checking the clutch fluid level

The fluid level is visible through the clutch fluid reservoir. Refer to *Under bonnet layout* previously in this chapter for clutch fluid reservoir location.

Maintain the level between the **MIN** and **MAX** markings.

If the fluid is between these levels, do not remove the reservoir cap, as brake fluid exposed to the atmosphere will quickly absorb moisture.

Adding clutch fluid

1. Ensure that the ignition is switched off.
2. Wipe the sides of the cap clean and turn anticlockwise to remove.
3. Top up with heavy duty clutch fluid which meets Holden specifications. Refer to *Specifications* in chapter 8 for the correct specification.

WARNING
Use only new brake fluid. Use of old, used or inferior clutch fluid may endanger the functioning of the clutch system.

4. Secure the cap and clean up any spilt fluid.

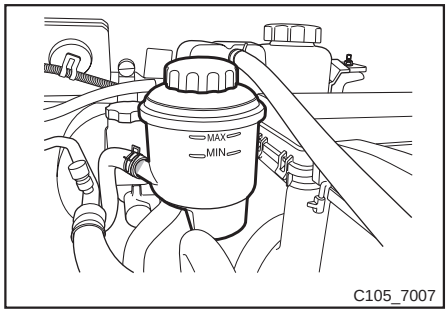
   Note If the clutch fluid reservoir requires constant topping up it could indicate that a fault exists. Contact your Holden Dealer immediately.

UNDER BONNET CHECKS cont.

POWER STEERING

Note Driving your vehicle without the proper amount of power steering fluid can result in system damage requiring costly repair.

Power steering fluid level



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The power steering fluid level should be checked with the ignition switched off.

Check the fluid in the reservoir. The level should be between the MIN and MAX marks.

If the fluid is below the MIN mark, you should add fluid.

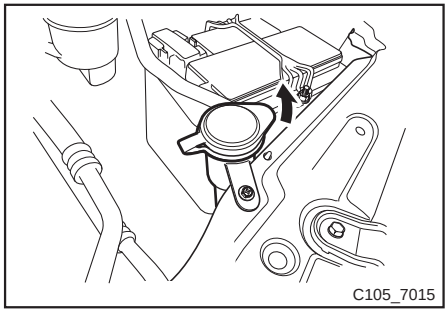
To add power steering fluid, do the following:

1. Switch off the ignition.
2. Wipe the cap and the top of the reservoir clean.
3. Remove the cap.
4. Add only enough fluid to bring the level up to the MAX mark. Do not overfill.
5. Replace the cap tightly.
6. Clean up any spilt fluid.

Refer to *Specifications* in chapter 8, for power steering fluid specifications. If you often need to add fluid, contact your Holden Dealer.

WASHER FLUID

Washer fluid level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As washer fluid is regularly used, the level in the washer fluid reservoir should be checked and topped up weekly.

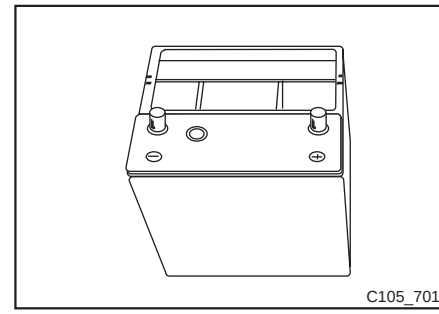
For a crystal clear windscreen, use the correct amount of windscreen washer additive. Refer to your Holden Dealer.

Note Do not use ordinary soap or detergent as these not only froth up but would also damage the wiper rubbers.

Ensure the cap is secured.

BATTERY

Battery maintenance



Your vehicle is fitted with a maintenance free battery, which means the fluid level does not need to be checked.

To extend the life of your battery, do the following:

- Keep the battery mounted securely.
- Keep the top of the battery dry and clean.
- Keep the terminals and connections clean, tight and coated with petroleum jelly or terminal grease.
- Immediately rinse off any spilled electrolyte using a solution of water and baking soda.
- If the vehicle is not going to be driven for an extended period of time, disconnect the cable from the negative (-) terminal of the battery to prevent discharge, and charge the battery every six weeks.

WARNING

- Batteries emit an explosive gas mixture which may be ignited by sparks or naked flames. You should therefore keep sparks and flames away from the battery at all times. Never smoke near a battery.
- Batteries contain sulphuric acid. If acid contacts skin or clothing, flush immediately with a lot of water. In case of eye contact, flush with a lot of water and seek medical assistance immediately.
- Battery acid also damages paint and fabrics. To minimise damage, wash off immediately.
- Take care with all metal objects and tools including items you may wear (e.g.: jewellery, ring and metal watch bands) near battery terminals. Metal objects that touch battery terminals can cause sparks and serious heat burns to the user or wearer.
- Never disconnect the battery when the engine is running.
- Always connect the red cable to the positive (+) battery terminal and the black cable to the negative (-) battery terminal. Connecting the battery cables to the wrong terminals can result in injury and damage to the vehicle.
- Wear eye protection such as safety glasses and avoid leaning over the battery.

CHAPTER 8

Specifications

Page

Specifications 8-2

General specifications 8-3

Identification labels 8-4

*The asterisk signifies equipment options not in all vehicles, model variants, engine options, optional equipment and Genuine Holden Accessories (and Parts).

SPECIFICATIONS

Engine Type	**2.4 Litre DOHC 4 cylinder**
Piston displacement	2405 cc
Power and torque	Refer to: holden.com.au
Oil specification	ACEA service classification A3, B3 Viscosity grade 0W-30/40 or 5W-30/40
Refill oil capacity (including filter)	4.7 Litres
Fuel tank capacity	65 Litres
Coolant capacity	9 Litres
Coolant specification	50% clean water and 50% Dexcool® anti-freeze coolant, conforming to specification number GM6277M
Brake fluid	Hydraulic Brake Fluid SAE J1704 DOT 4 Grade
Power steering fluid	Dexron® VI
Battery specification	12 volts, 60 amp hours
Battery for remote control	CR 20 32

GENERAL SPECIFICATIONS

Transmission

Transmission	**5 speed automatic transmission**	**5 speed manual**
Transmission fluid type	Esso JWS 3309 or conforming to Holden specification number HN2414	SAE 75W/90 GL5

Drivetrain

Rear differential	Synthetic Hypoid 75W/90 GL5
Power transfer unit	Synthetic Hypoid 75W/90 GL5

Dimensions

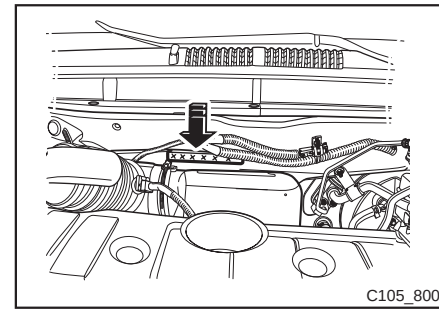
Overall length		4,570 mm
Overall width (excluding mirrors)		1,850 mm
Overall height, at kerb weight		1,700 mm
Track	Front	1,562 mm
	Rear	1,572 mm
Wheel base	2,707 mm	

IDENTIFICATION LABELS

Vehicle identification number (VIN)

This is the legal identifier for your vehicle, and is used for the identification of spare parts.

The vehicle identification plate is located inside the engine bay, on the bulkhead.



Breakdown of vehicle identification number

The vehicle identification number is broken down the following way:

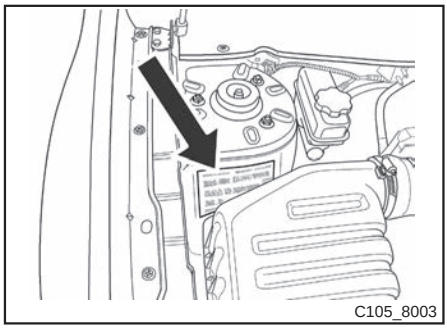
K	L	1	D	A	2	6	F	J	A	B	1	2	3	4	5	6

Sequential production number
Plant location: B = Bupyung
K = Kansun
Model year code: 9 = 2009, A = 2010, etc
Purpose: E = Export, J = Euro 2005
Engine type: F = 2.4L DOHC MPFI L4
Body style: 26 = All purpose window-4 door (liftgate)
Transmission: D = AWD (all wheel drive) automatic transmission
F = FWD (front wheel drive) manual transmission
Car line: D = Captiva 5
Manufacturer identifier: K = Asia, L = Korea, 3 = Holden

IDENTIFICATION LABELS cont.

Compliance label

The compliance label is located in the engine bay at the front of the driver's side suspension tower.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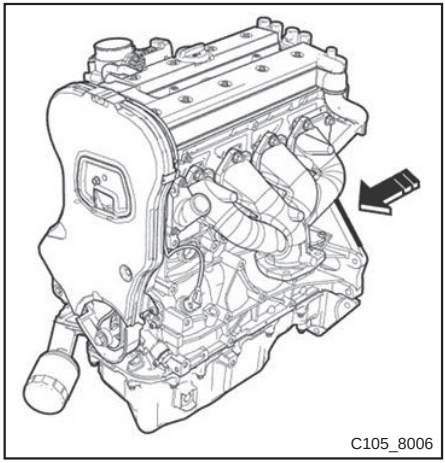
Engine number

Individual identification numbers are stamped onto the engine block under the exhaust manifold, toward the passenger's side.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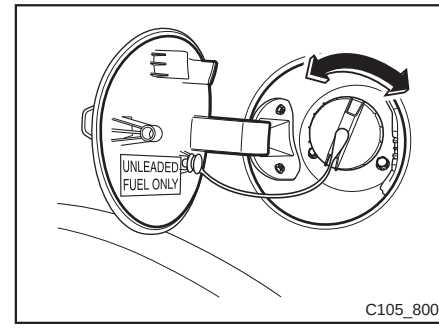
IDENTIFICATION LABELS cont.

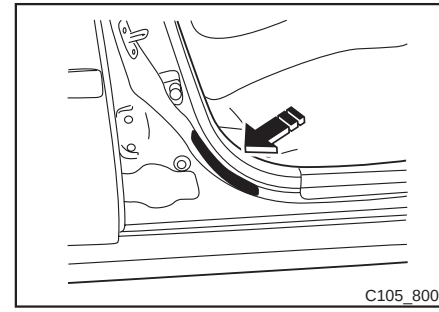
Fuel label

The fuel label is located on the inside of the fuel filler door.



Tyre label

The tyre placard is found on the lower part of the 'B' pillar on the driver's side.



CHAPTER 9

Tow and load

Page
Loading the vehicle.....9-2
Towing 9-4

*The asterisk signifies equipment options not in all vehicles, model variants, engine options, optional equipment and Genuine Holden Accessories (and Parts).

LOADING THE VEHICLE

Maximum vehicle payloads

Overloading is a safety hazard and could also shorten the life of your vehicle. The typical recommended carrying capacity of the vehicle is shown in the table below.

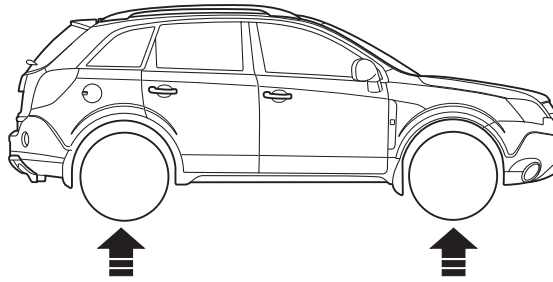
Do not exceed the maximum axle loads shown below in the diagram, including the weight of any options or accessories fitted to the vehicle.

Remember to take the roof load into account when determining the rear axle load.

If unsure, the vehicle should be weighed at a weighbridge.

Occupants (at an average of 68 kg each)	Luggage (kg)	Total load (kg)
5	68	408

Maximum front and rear axle loads



Rear axle load (kg)	Front axle load (kg)
1,340	1,205

Notes on loading the vehicle

- Place heavy objects in the rear luggage compartment as far forward as possible against the rear seat backrests. When stacking objects, place the heavier objects at the bottom. Unsecured objects in the rear luggage compartment could be thrown forward with great force during heavy braking or in an accident.
- Heavy objects can slip when the vehicle is braking heavily or driven around a bend, and the handling of the vehicle may change.
- Do not place objects in front of the rear window or on the dashboard above the instrument panel. They are reflected in the glass, obstruct the driver's vision and may be thrown through the vehicle in the event of heavy braking.
- Driving with a roof load increases the sensitivity of the vehicle to cross winds and affects vehicle handling owing to the higher centre of gravity of the vehicle.
- Do not place objects in the area where the airbags inflate. Objects can cause injury if the airbags are deployed.

LOADING THE VEHICLE cont.

WARNING
Loaded roof rails or cross bars alter the handling of the vehicle due to a change in the centre of gravity. Do not drive at high speeds, avoid hard braking, abrupt swerving or sharp steering.

Always drive carefully when:

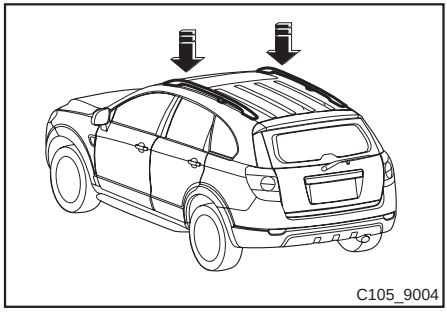
- Cornering or
- Driving in cross winds.

Roof rails

The roof rails can be used to carry additional cargo, or bulky items which are better carried outside the vehicle rather than inside.

The roof rails are attached to the roof of the vehicle.

Ensure the load is evenly distributed over the rails and secured tightly with straps so that it can not slip. The roof surface must not be subjected to any load.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Roof cross bars*

Distribute the load evenly and secure tightly with straps so that it can not slip. For occupant safety, and to avoid damaging the vehicle's roof, refer to your Holden Dealer for the approved cross bars system for your vehicle.

WARNING
The load, including the weight of the roof cross bars or roof rails, must not exceed 75 kg, distribute the load evenly.

Note Remember the weight of the roof cross bars or roof rails and their load must be included when calculating the total load.

Carrying portable gas cylinders in vehicles

WARNING
Gas cylinders can leak, creating a risk of fire or explosion. As a precaution, ensure adequate ventilation when carrying gas cylinders. They must be restrained from rolling around, and where possible, placed in the load area of the vehicle. It is recommended that if gas cylinders are frequently transported, a purpose built carrying compartment be used. Transportation of gas cylinders is regulated by legislation in some States.

TOWING

TRAILERS

The word 'Trailer' is used throughout this section and is intended to include all types of towed vehicles, such as a caravan, boat trailer or any other special purpose trailer.

TOWING

The vehicle is designed primarily as a passenger vehicle, so handling, durability and economy may be affected by towing a trailer.

Refer to the table further on in this chapter for the mandatory equipment required for the weight you are towing. Your Holden Dealer will help supply and install towing equipment to suit your requirements.

OVERLOADING

Never exceed the loads given for the towing equipment fitted to the vehicle. For your safety and the vehicle's durability, all mandatory equipment must be fitted. Otherwise you may void the New Vehicle Warranty, to the extent that Holden considers the overloading or missing equipment to have affected the specifications or quality of the vehicle.

MAXIMUM TOWING CAPACITY (kg) – BRAKED TRAILER

Engine	**4 cylinder petrol**	
Transmission	**Automatic**	**Manual**
	1,500 kg	1,500 kg
Note The maximum unbraked towing capacity is 750 kg.		

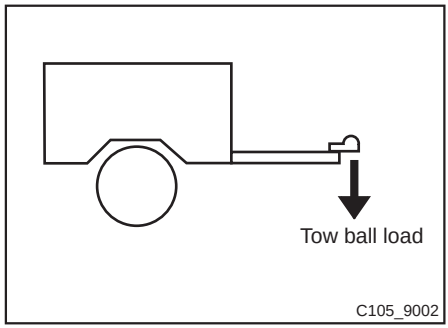
WARNING
Holden towing equipment is recommended where it is available. Where it is not available, no recommendation is made as to the make of equipment to be used. Holden will not accept liability for defects occurring in towing equipment not marketed by Holden or for defects in the vehicle arising from the use of such equipment or for loss or injury caused by use of such equipment. The use of such equipment may void your New Vehicle Warranty to the extent that Holden considers the overloading or missing equipment to have affected the specifications or quality of your vehicle. It is not advisable to mix and match different brands of towing equipment, as equipment is usually designed as an integrated package.

Towing with Electronic Stability Program (ESP®)

When towing with a vehicle fitted with ESP®, you may hear noise from the ESP® modulator when it is working. The ESP® is reacting to the vehicle movement caused by the trailer, which mainly occurs during cornering. This is considered normal when towing heavier trailers.

TOWING cont.

Recommended procedure for attaching a trailer



When a trailer is hitched to the vehicle, it places a weight on the tow bar. This weight is called the ‘tow ball load’.

If the tow ball load is too light or too heavy, the steering and handling of the vehicle may be affected.

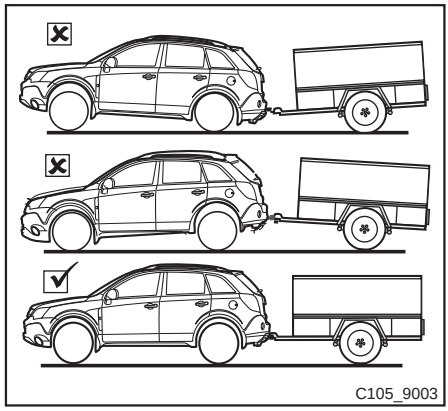
As a general guideline, for single axle trailers, the ball load should be approximately 10 % of the loaded trailer mass. For heavy trailers with more than one axle, the ball load should be in the range of 5 % - 10 % of the loaded trailer mass.

Note If the tow ball load exceeds 80 kg refer to mandatory equipment in the *Towing equipment* table further on in this chapter.

The tow ball load can be adjusted by correctly packing the contents of the trailer. For example, by moving items forwards or backwards within the trailer so as to change the balance of the trailer.

Check the tow ball load before coupling the trailer to the towing vehicle.

If the attitude of the vehicle is compromised, adjust the vehicle and trailer load within the specifications to improve the attitude. If the vehicles attitude cannot be corrected, use a load distribution hitch.



TOWING cont.

TOWING EQUIPMENT

Tow load	Tow ball load	Mandatory equipment
Up to 750 kg	Less than or equal to 80 kg.	Holden 1,500 kg rated tow bar.
		Holden trailer wiring harness.
Up to 750 kg	More than 80 kg.	Holden 1,500 kg rated tow bar.
		Holden trailer wiring harness.
		Load distribution hitch.
Between 750 kg and 1,500 kg	Less than or equal to 80 kg.	Holden 1,500 kg rated tow bar.
		Holden trailer wiring harness.
		Brakes on the trailer.
Between 750 kg and 1,500 kg	More than 80 kg.	Load distribution hitch.
		Holden 1,500 kg rated tow bar.
		Holden trailer wiring harness.
		Brakes on the trailer.

Note

1. A load distribution hitch transfers load to the vehicles front wheels aiding steering and brake performance.
2. At no time may the maximum towing capacity exceed the maximums specified. Refer to *Maximum towing capacity* previously in this chapter.
3. At no time may the total front or rear axle load exceed the maximums specified. Refer to *Loading the vehicle* previously in this chapter.

TOWING cont.

TOWING PRECAUTIONS

- When heavily loading your vehicle or when towing, your tyres should be inflated to the maximum recommended pressure. Refer to *Under bonnet checks* in chapter 7, for tyre placard and information about tyre pressures.

  Also, refer to *Driving precautions* in chapter 4, for driving information with increased loads.
- Ensure the load distribution hitch is correctly distributing the tow ball load. Refer to *Towing equipment* previously in this chapter.
- Tighten the tow ball retaining nut to 140 Nm (Newton Meters) and check the torque frequently.
- Vehicles handle differently when towing. It is a good idea to make a couple of short-distance trips with the trailer before setting off on a longer journey.
- Have your vehicle correctly maintained and serviced.
- Have the trailer maintained and serviced, with particular attention to the condition of the brakes, tyres, suspension, wheel bearings, lighting and the tow coupling.
- Use extended-arm rear view mirrors on both sides of the vehicle if necessary.
- Headlamps may need realignment after the loaded trailer has been hitched, particularly if a load distribution hitch is not used.
- Use a lower gear and the brakes, when descending steep hills.
- Do not use axle-mounted hitches as this will damage the vehicle.
- Ensure that no part of the tow bar (including the tongue or tow ball) obscures the vehicle's licence plate. If necessary, remove the tow bar tongue when it is not in use.
- If a tow bar is removed:

  Ensure to have any mounting holes in the underbody properly sealed to prevent the possible entry of exhaust fumes, dust and water.

Trailer brakes

- Trailer brakes are mandatory on trailers weighing 750 kg and over when loaded. The brakes on the trailer must be designed to cope with the braking requirements of the trailer under all towing conditions, without adversely affecting the brakes on the vehicle.
- Consult the appropriate regulatory body in your State or Territory for the legal requirements of trailer brakes.

TOWING cont.

Fitting accessories

When fitting accessories, take care not to restrict airflow through the air conditioner condenser and the radiator, otherwise engine overheating and/or poor air conditioning performance may result.

The mass of all accessories must be considered when evaluating the vehicle's overall loaded condition.

Remember that roo bars may affect airbag operation. Refer to *Supplemental restraint system* in chapter 3 for details.

Running in before towing

Holden recommends that you drive your new vehicle for at least 1500 km before towing. If you must tow in the first 1,500 km of the vehicle's life, do not exceed 80 km/h.

The same applies if the vehicle is equipped with a new or reconditioned engine, transmission or axle.

Off road loading and towing

Driving the vehicle off road may induce higher loads than normal on road driving. To reduce the risk of damage to your vehicle (and trailer) and to improve safety when operating off road, reduce the vehicle speed and minimise the load being carried (or towed).

Vehicle maintenance

More frequent vehicle maintenance is required when using the vehicle for towing. Refer to the Service/warranty booklet in the vehicles glovebox.

CHAPTER 10

Cleaning

Page
Interior cleaning.....10-2
Exterior cleaning.....10-4

*The asterisk signifies equipment options not in all vehicles, model variants, engine options, optional equipment and Genuine Holden Accessories (and Parts).

INTERIOR CLEANING

WARNING
Many cleaners are toxic, flammable or may damage the interior. When cleaning the interior, avoid volatile cleaners such as acetone, lacquer thinners, enamel reducers, nail polish removers, or cleaners such as laundry soaps, bleaches or reducing agents. Never use carbon tetrachloride, petrol or naphtha for any cleaning purpose. Ensure the vehicle is well ventilated while using any cleaners and always follow the cleaning product manufacturer's recommendations. Water based cleaners, rather than solvent based cleaners, are recommended.

Steam cleaning of seats is not recommended.

Upholstery

Dust and dirt accumulate on upholstery and should be removed every few weeks, more often with constant driving. This can be done readily with a vacuum cleaner. Before attempting to remove spots and stains, it is necessary to determine:

- The type of fabric.
- The nature and age of the stain.
- The effect of the stain removal agent on the upholstery.

Remove stains as soon as possible. If a stain remains for any length of time it may oxidise or set, making removal very difficult, if not impossible.

Vinyl

Vinyl fabrics are used for seating, headlinings and auxiliary trimming. Wipe over the surface with a dry cloth during the regular cleaning of the vehicle.

Should dirt accumulate and become embedded in the material pattern:

1. Use lukewarm water and soap, or a good quality velour fabric and vinyl cleaner, to work up thick suds on a piece of cheesecloth and apply to the surface. A soft bristle brush can be used to remove embedded dirt and stubborn stains.
2. Repeat using only a damp cloth and no soap.
3. Wipe dry with a soft cloth. The above cleaning instructions also apply to the rubber floor mats.

Cloth

To clean seats upholstered with cloth, observe the following instructions:

- Remove loose dirt and dust with a vacuum cleaner or soft brush.
- DO NOT use a whisk broom or a coarse hair brush.
- For normal soiling, sponge lightly with warm water containing a mild detergent. Rub the fabric lightly and, if necessary, sponge again to remove any stubborn stains. Soak up excess fluid with a dry cloth. A good quality velour fabric and vinyl cleaner may be used, but should be used sparingly.

INTERIOR CLEANING cont.

Carpet

Thoroughly brush or vacuum the carpet. In many instances the carpet may require no further cleaning. If the carpet is extremely soiled, thoroughly vacuum it to remove loose dirt then, using a good quality velour fabric and vinyl cleaner, clean a small area at a time. After each area is cleaned, remove as much of the cleaner as possible with a vacuum cleaner.

Secured carpet mats*

Retainers are provided to hold carpet mats in place. Use a screwdriver or similar (not the vehicle key) to undo the retainers when required. To replace, push the retainer on the back of the mat into the hole in the carpet and turn clockwise to secure.

Leather*

To remove surface soil and dirt from leather, clean regularly using a leather revitaliser. Apply using a lint free cloth and rub onto leather, do not saturate the leather with the cleaner and do not pour it directly onto the leather. Allow the leather to dry naturally. A mild detergent may be used as an alternative to a leather revitaliser.

For deeply embedded soil and dirt, use a leather cleaner. This should be applied using the same process as leather revitaliser. After using a leather cleaner/revitaliser apply a leather protector. A leather protector is designed to repel dirt and provides water resistance.

Note

- Clean and protect leather at least twice a year.
- Do not use synthetic cloths or brushes for cleaning the leather as this may damage the leather.
- Solvents may damage and/or discolour the leather and should not be used.
- The leather may shrink and harden if exposed to direct sunlight for extended periods. If possible park in the shade or cover the leather.
- Do not leave items on the leather that may melt and stick to leather, for example, plastic bags.

Seat belts

Clean seat belts only with a mild, non-abrasive soap and lukewarm water. After washing, be sure to thoroughly sponge the washing solution out of the belts.

WARNING
Do not bleach or dye seat belts as this may severely weaken them.

Interior glass

Clean interior glass of the vehicle using a good quality glass cleaner and a clean soft cloth. Take care when cleaning inside the rear window so as not to damage the rear window demister or radio antenna.

Never use abrasive cleaners on any vehicle glass, as they can cause scratches.

EXTERIOR CLEANING

Caring for paint

To help preserve that shiny new vehicle finish, pay special attention to correctly treating those conditions that can damage the paint.

- **Road bloom**: If, over a long period of time, oils, dirt, exhaust and other pollutants are allowed to build up, they may combine to affect the paint finish.
- **Etching**: Tree sap, bird droppings, salt water and other natural deposits can, if allowed to stay on the paint, leave an etching or scarring.
- **Pitting**: Tar spots and some industrial fallout can react chemically and may cause pitting to the surface of the paint.

Paint inspection

Inspect the vehicle regularly for scratch marks, cracks or damaged areas, all of which could develop rust. Any deep scratches, cracks or breakdown in the finish should be repaired without delay. Take care to ensure that any rusting is counteracted immediately, otherwise rust 'creep' will extend beyond the damaged area, particularly in tropical or coastal areas, where the moist, or salt-laden air accelerates rusting. The paint finish of the vehicle gives a very high degree of protection against the weather, but wear and deterioration occur when the vehicle is exposed to elements for prolonged periods. The vehicle therefore should be garaged whenever possible.

To prevent damage of the paint surface, remove foreign matter as soon as possible.

Note Due to the acidity, remove foreign matter such as bird droppings within 24 hours.

Washing the vehicle

The easiest way to keep the paint looking as new is to keep it clean. A wash once a week will keep the vehicle in good condition. However, it must be washed correctly.

Note

- Never use an automatic wash that requires anything touching the paint (other than water).
- Wash the vehicle once a week to remove build up of any grime on the paint.
- Never wash the vehicle in direct sunlight; find a shady spot to wash the vehicle.

1. Hose the vehicle down from top to bottom with plenty of cold water (in accordance with current water restrictions, if any). This removes any grit or other loose particles and substances. Do not use a sponge or cloth at this point.
2. Fill a bucket with lukewarm water and add no more than two capfuls of gentle detergent. Do not use hot water, strong soap or chemical detergents.
3. To remove bird droppings, soak with a wet sponge for several minutes before washing off. If still persistent, use a solution of one litre of water and 110 grams of dissolved baking soda (bicarbonate of soda). Rinse the area with clean water.
4. Starting with the roof, use a clean sponge to clean a small section at a time. Do not allow liquid to dry before rinsing off that section with clean water. When all sections are completed, rinse the whole vehicle again with clean water.
5. Dry the vehicle thoroughly with a good quality chamois.

EXTERIOR CLEANING cont.

WARNING
Take care when moving the vehicle after washing, in case water has affected the brakes. Applying the brakes lightly will indicate whether they have been affected. To dry them quickly, lightly apply the brakes while maintaining a slow forward speed with a clear area ahead, until brake performance returns to normal.

Removing stains (grease, oil and tar spots)

Washing the vehicle regularly means that most of the harmful substances deposited on the paint are removed before they can cause permanent damage. However, some substances are not easy to remove. If you notice stains on the paint, make sure that you remove them at the earliest possible opportunity.

Grease and oil, and even tar if it's fresh, can be removed from the paint with a little kerosene or turpentine. As a precaution against staining, wash and polish the area as soon as possible after the stain has been removed. A rubbing or cutting compound can be used after a normal wash. Do not do this on a regular basis as it removes paint.

WARNING
- Some chemical cleaners, used for removing road oils and tars from painted surfaces, have been found to be detrimental to automotive paint.
- If petrol is spilt on the paint when refilling, flush off immediately with clean water as petrol has a tendency to stain or soften new paint finish during the weathering out period, particularly when the vehicle is exposed to high temperatures.
- Petrol MUST NOT be used to clean any painted or plastic surfaces.
- Do not spill coolant on the vehicle's exterior surfaces. It can damage the paintwork. If you do, wash it off immediately.

Air intakes

The intake area between the bonnet and windscreen can collect leaves which impairs air flow into the vehicle. Also, the air intake area below the front bumper may collect leaves and road grime, which impairs engine cooling. Clear this area of debris whenever the vehicle is washed.

Under vehicle washing

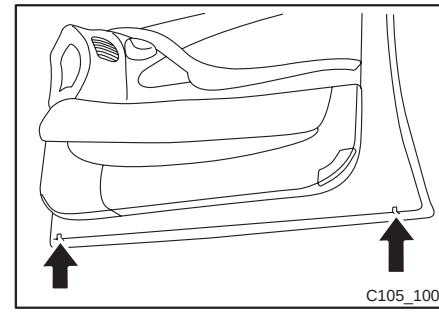
The effects of substances such as salt from road surfaces can cause rust under the vehicle. Hose the underbody with clean water whenever the vehicle is washed. In geographical areas having a heavy concentration of corrosive materials (such as by the sea), it is recommended the complete underbody be inspected and washed at least once each year, preferably after winter exposure. Pay particular attention to cleaning out the underbody where dirt and other foreign materials may have collected.

EXTERIOR CLEANING cont.

Door drain holes

It is important the drain holes at the bottom of the door panels are checked to ensure they are free of dirt and other foreign materials which could trap water inside the panels. Clean clogged drain holes with a small screwdriver.

Note The drain holes in the doors are angled toward the rear of the vehicle.



Polishing

Under normal circumstances the paint does not need polishing to retain its shine. A weekly wash is sufficient. However, the use of a good quality polymer glaze, approximately every 3 months will reduce the effects of road bloom by removing natural contaminants which can build up on the paint.

WARNING
Do not attempt to apply a polish without first washing the vehicle to remove loose grit, surface dirt, dust or grease.

Tyres

Sponging with cold water is all that is necessary for normal cleaning. Oil and grease should be removed with soap and water or detergent. For tar or other substances, use a mild abrasive, such as mechanic's hand soap or kitchen cleaning powder, if necessary. Thoroughly wash the tyres with clean water to finish. Do not use petrol to clean tyres.

A new tyre look can be restored using a good quality tyre and bumper shine.

Alloy wheels

To preserve the original appearance of alloy wheels, keep them clean and free from build up of road dirt. A good quality wheel cleaner can be used for cleaning alloy wheels. Do not use abrasive cleaners on alloy wheels.

Glass cleaning – general

Take care not to scratch the glass. If it is cleaned at the same time as the rest of the vehicle, there is a possibility that particles of grit will cause fine scratches. Flush off any mud on the glass when washing the body, but leave the final cleaning and polishing until afterward. Use a good quality glass cleaner and wash each section of glass in turn, making sure the water, its container and the sponge are quite clean and free from grit. Clean, old linen cloth is better than new material for polishing glass.

EXTERIOR CLEANING cont.

Windscreen

It is important the windscreen be kept clean so the wiper blades operate as effectively as possible. Old wiper blades can cause windscreen scratching and so should be regularly inspected and replaced.

Never use abrasive cleaners to clean glass as they can cause scratches, impairing night vision. After the windscreen has been cleaned with a wet sponge, wipe it over with a soft, lint free cloth or chamois.

It is recommended that a good quality windscreen washer additive be added to the windscreen washer reservoir.

Wiper blades

Oil and road scum thrown up on the windscreen causes smearing when the wipers are switched on and is transferred onto the wiper blades. While many methodically clean the windscreen glass, they often forget to clean the wiper blades. Consequently, smearing of the glass reappears immediately the wiper blades are used. Clean the blades by lifting them off the windscreen and cleaning with a good quality glass cleaner and a clean cloth.

WARNING
Do not operate the wiper blades by hand as this damages the wiper drive mechanism.

If the wiper blades are used to clean dust and dirt from the windscreen in dry conditions, always use the washer system first to wet the windscreen. Ensure the windscreen washer reservoir is full.

Should the wiper blades freeze to the windscreen, you must lift them off and free them by hand before switching on the wipers.

NOTES

INDEX

A

Add on equipment 4-23
Airbag indicator..... 1A-6
Airbags 3-13
Air conditioning..... 1A-23
Air outlets..... 1A-22
Air pressure (tyres)..... 7-3
All wheel drive system (AWD) 4-22
Antenna 1B-21
Anti-Lock Brake System (ABS)..... 4-18
Arm rests 3-23
Assist grips 3-21
Audio system..... 1B-2
Automatic transmission
- Fluid level..... 7-9
- Operation 4-13

AWD indicator..... 1A-10

B

Battery (when flat) 6-15
- Maintenance 7-14

Battery saver 1A-17
Battery specification 8-2
Battery warning lamp..... 1A-7
Bonnet release 2-10
Brakes 4-5
- Fluid level..... 7-11
- Park brake 4-8
- Warning lamp..... 1A-7

Bulbs (replacement) 6-21

C

Capacities (fluid)..... 8-2
Caravan, towing..... 9-4
Carbon monoxide warning..... 5-2
Cargo blind 3-25
Caring for paint..... 10-4
Car key 2-2
CB radios..... 4-6
CD player..... 1B-2
Central locking..... 2-2
Centre console 3-23
Child proof lock..... 2-8
Child restraints..... 3-10
Cleaning 10-2
Clutch fluid..... 7-12
Compliance label..... 8-5
Cooling system
- Coolant level 7-10
- Overheating 6-12

Cruise control 1A-20
Cruise control indicator..... 1A-10
Cup holders 3-23
Customer assistance..... 6-2

D

Dashboard layout 1A-2
Deadlocking..... 2-7
Demister 1A-24, 1A-26
Descent Control System (DCS)..... 4-21
Dimensions..... 8-3
Dimmer..... 1A-19
Dipstick (engine oil) 7-7
Door ajar lamp..... 1A-10
Door locks..... 2-7
Door (key)..... 2-2
Driver's seat 3-3
Driver Information Display (DID).... 1A-11
Driving precautions..... 4-4

E

Electronic Stability Program (ESP®) 4-19
Emission control system..... 5-5
Engine
- Cooling system 7-10
- Identification number 8-5
- Oil level 7-7
- Overheating 6-12
- Specifications..... 8-2
- Starting 4-12
- Warning lamp..... 1A-7

INDEX cont.

Engine oil
- Capacity 8-2
- Checking levels 7-7
- Consumption notes 7-8
- Pressure lamp 1A-7

Ethanol 5-2
Exhaust gas warning 5-2
Exterior glass cleaning 10-6

F

Fan with manual heater 1A-23
Flashers
- Hazard warning 1A-14
- Turn signals 1A-19

Flat battery 6-15
Flat tyre 6-4
Fluid capacities 8-2
Fluid levels
- Automatic transmission 7-9
- Brake 7-11
- Clutch 7-12
- Coolant 7-10
- Oil 7-7
- Power steering 7-13
- Windscreen washer 7-13

Foldaway key 2-2
Fog lamps 1A-18
Fuel 5-2
- Economy tips 5-6
- Ethanol 5-2
- Gauge 1A-5
- Refilling 5-3
- Warning lamp 1A-6

Fuel tank specifications 8-2
Fumes (petrol) caution 5-2
Fuse replacement 6-17

G

Gas cylinders 9-3
Gauges 1A-3
Glovebox 3-22

H

Hand brake 4-8
Hazard warning flashers 1A-14
Headlamp switch 1A-17
Head restraint 3-5
Heater controls 1A-23
High beam indicator lamp 1A-8
Horn 1A-14

I

Identification numbers 8-4
Ignition switch 2-6
Immobiliser 2-11
Indicator/warning lamps 1A-6
Indicators (turn signals) 1A-19
Infant and child restraints 3-10
Inflation (tyres) 7-3
Instrument panel 1A-3
Interior cleaning 10-2
Interior lamps operation 3-19

J

Jack 6-5
Jump starting 6-15

K

Keyless entry 2-3
Keys 2-2

L

Lamps
- Bulb replacement 6-22
- Headlamp switch 1A-17
- Instrument panel 1A-3
- Interior (dome) lamp 3-19
- Lamps on reminder 1A-17
- Map lamps 3-19

Licence plate lamps 6-25
Loading information 4-5, 9-2

INDEX cont.

Locks
- Bonnet 2-10
- Child proof 2-8
- Door 2-7
- Fuel filler 5-3
- Ignition 2-6
- Rear tailgate 2-9

Lubricants 8-2, 8-3
Lumbar adjustment 3-3

M

Malfunction indicator lamp 1A-7
Manual heater, air conditioner 1A-23
Manual transmission 4-17
Map lamps 3-19
Matching the remote control transmitter 2-4
Mirrors 3-17
Miscellaneous checks 7-2
Mobile phones 4-6
Model identifications 8-4

N

New vehicle running-in 4-4
New Zealand owners 6-3

O

Octane rating (fuel) 5-4
Odometer 1A-4
Oil
- Capacity 8-2
- Consumption 7-8
- Level 7-7
- Low pressure warning 1A-7

Overheating 6-12
Owner responsibility
- Emission control 5-5
- Weekly checks 7-2

P

Paintwork cleaning 10-4
Park assist 4-9
Park brake 4-8
Parking 4-2
Passenger seat 3-2
Petrol 5-2
Pollen filter 1A-26
Power sockets 3-26
Power steering 4-4
- Fluid level 7-13
- Precaution 4-4

Power windows 3-16
Pretensioners 3-7

R

Radiator 6-13
Radio 1B-2, 1B-10
Rear seats 3-4
Rear tailgate lock 2-9
Rear view mirror 3-17
Rear window demister 1A-26
Recline (seat) 3-2, 3-3, 3-4
Reducing fuel consumption 5-6
Remote control
- Door locks 2-3
- Matching transmitter 2-4
- Replacing the battery 2-4

Remote locking 2-7
Restraints 3-6
Roof rails 9-3
Running-in 4-4

S

Safer driving precautions 4-4
Safety 4-2
Seat adjustment 3-2
Seat belt pretensioners 3-7
Seat belt reminder lamp 1A-8
Seat belts 3-6
Seats 3-3
Serial number 8-4
Shift lock control system 4-13, 6-11
Snow chains 4-6

INDEX cont.

Spare wheel..... 6-5
Specifications 8-2
Towing capacity 9-4
Speedometer 1A-4
Starting
Flat battery 6-15
Normal 4-12
Steering (tilt/telescopic) 1A-14
Steering wheel remote controls 1B-3
Stop/tail lamp replacement 6-24
Storage compartments 3-22
Sunglasses holder 3-25

T

Tachometer 1A-4
Tailgate ajar lamp 1A-10
Tailgate release 2-9
Tail lamps bulb replacement 6-24
Temperature warning 1A-9
Tilt steering 1A-14
Towing 9-4
Caravan/trailer 9-4
Disabled vehicle..... 6-9
Precautions..... 9-7
Trailer towing 9-4
Transmission
Automatic..... 4-13
Manual 4-17
Shift lock control system ... 4-13, 6-11
Tripmeter 1A-4
Turn signal
Bulb replacement..... 6-23
Operation 1A-19
Tyres
General..... 7-3
Grip 4-5
Inflation pressure 7-3
Label 8-6
Rotation 7-4

V

Vanity mirrors..... 3-18
Vehicle Identification Number (VIN) 8-4
Vehicle loading 9-2
Ventilation system.....1A-22

W

Warning lamps.....1A-6
Washing..... 10-4
Water crossing..... 4-7
Weekly checks..... 7-2
Wheel changing..... 6-5
Windows..... 3-16
Windscreen
Fluid level..... 7-13
Wiper/washer control lever 1A-15